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NASA CR-132684

A NUMERICALLY EFFICIENT FINITE ELEMENT HYDROELASTIC ANALYSIS

Volume II: Implementation in NASTRAN

PART II

by

Robert N. Coppolino

November 1974

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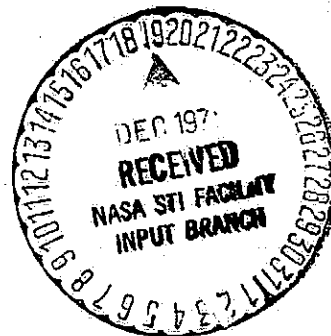
Final Report — Prepared Under Contract No. NAS 1-10635-21

by

Grumman Aerospace Corporation

Bethpage, New York 11714

**Langley Research Center
Hampton, Virginia**



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

FOREWORD

The work described in this report was performed at the Grumman Aerospace Corporation, Bethpage, New York, and administered by the Vibration Section of the Structures and Dynamics Division, NASA Langley Research Center, Hampton, Virginia.

The work performed under NASA Contract NAS1-10635-21 with supplementary funding provided by the Space Division, Rockwell International (POM3WXMZ-483002) included development of a fundamental finite element hydroelastic formulation applicable to NASTRAN, implementation of the theoretical developments into NASTRAN and verification, and demonstration of the new technique on various problems including the 1/8-scale space shuttle external tank model.

ABSTRACT

A fundamental reformulation of the NASTRAN hydroelastic analysis is developed in Volume I on the basis of Toupin's complementary variational principle of classical mechanics and on the basis of a physical interpretation of the NASTRAN fluid matrix equations. Emphasis is placed on the special case of an incompressible fluid model which is applicable to propellant tank hydroelastic analysis. A concise fluid inertia representation results from the assumption of incompressibility and the NASTRAN hydroelastic equations reduce to a simplified form associated with non-fluid structures. The efficiency of the incompressible hydroelastic formulation is enhanced for both fluid and structure by introduction of harmonic reduction as an alternative to Guyan reduction. The theoretical developments are implemented in NASTRAN by use of ALTER-DMAP statements and the modified NASTRAN hydroelastic analysis technique is verified and demonstrated as an efficient and accurate approach by several illustrative problems.

In Volume II the detailed modifications to the NASTRAN hydroelastic analysis are described. The DMAP operations are listed and applied to the 1/8-Scale Shuttle Model External Tank. The resulting mode shapes and frequencies are compared with experimental results.

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1/8 – SCALE EXTERNAL TANK CALCULATION OF FLUID MASS
MATRIX AND PRESSURE RECOVERY MATRIX –
POST MAX Q FILL CONDITION $h_{LOX} \sim 50'$,
 $h_{LH_2} \sim 130'$, $n = 0, 1, 2, 3$

**ORIGINAL PAGE IS
OF POOR QUALITY**

```

ID HYDRJ, CUPPOL, INO
APP 0132
SJL 7,0
TIME 15
CHKPNT YES
DIAG 7,8,13,14,19,21,22
A-TER 30
MAT04 GPL, USET, SIL, HGG//C,N,G
A-TER 73
MAT04 GPL, USET, SIL, MFF//C,N,F
A-TER 101
MAT04 GPL, USET, SIL, ADL//C,N,P
MAT04 GPL, USET, SIL, KDFL//C,N,P
A-TER 122
ADD AJL, M20PP/M2PP/V,N,MFACT $
A-TER 123,124
A-TER 130
MAT04 GPLU, USET0, SILD, MDD//C,N,D
MAT04 GPLD, USETD, SILD, KDD//C,N,D
SEKAI 4,G,KGG,MFF,KFF,ADFL//C,N,PRINT
SEKAI 4,PL,MDD,KDU, //C,N,PRINT
PARTY 4,0,P9, /KBP, AEM, KE/C,N,-1 $
TIME 30, /ACMT $
DDEE 4,0,ACT/PUU2/C,N,1/C,N,-1 $
ADD PUU2/PUU3/C,Y,A595=(1,0,0,0) $
PARA4 /C,N,NJP/V,N, TRUE=-1 $
CJIV PUU3,PUU2/TRUE $
CJIV PUU3, TRUE $
CJIV PUU3, // $
LABL PUU3 $
MPYAD AL,PUU2, /MFLD/C,N,0/C,N,-1 $
CJIV PUU3, MFLD, PUU2, //C,N,0/C,Y,NI =MF/C,Y,N2=APD $
MAT04 4,0,2,MFLD,AEM, // $
A-TER 107,170
EXIT
END-TER
END

```

JULY 3, 1974 NASTRAN 2/1473

N A S T R A N E X E C U T I V E C O N T R O L D E C K E C H O

840-JF FIRST-CARD IN CHECKPOINT DICTIONARY TO BE PUNCHED OUT FOR THIS PROBLEM

RESTART HYD3J *COPPOLIN. 7/ 3/74. 8970.

CY-INDU F-FLUID JULY 30 1978 NASTRAN 2/1/73

CASE CONTROL DECK ECHO

CARD	COUNT	TITLE=CYLINDRICAL FLUID
1		AXISYM=FLUID
3		SPC=1
4		MPC=1
5		METHOD=1
6		OUTPUT
7		DISP=ALL
8		HARMONICS=ALL
9		BEGIN BULK

*** USER INFORMATION MESSAGE 207. BULK DATA NOT SORTED.XSORT WILL RE-ORDER DECK.

ORIGINAL PAGE IS OF POOR QUALITY

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
1-	AXIF	5100	0.0							
2-	ZAX	0	1	2	3					
3-	BDYLIST		1012	1025	1038	1051	1064	1077	1050	6801
4-	EBJ1	1103	1116	1129	1142	1154	1166	1179	1178	6802
5-	EBJ2	AXIS								
6-	BDYLIST		2181	2201	2221	2241	2261	2281	2302	6803
7-	EBJ3	2321	2344	2361	2401	2420	2439	AXIS		
8-	CFLUID2	5209	1009	1022	1035					
9-	CFLUID2	5222	1022	1035						
10-	CFLUID2	5235	1035	1048						
11-	CFLUID2	5248	1048	1061						
12-	CFLUID2	5261	1061	1074						
13-	CFLUID2	5274	1074	1087						
14-	CFLUID2	5287	1087	1100						
15-	CFLUID2	5300	1100	1113						
16-	CFLUID2	5313	1113	1126						
17-	CFLUID2	5326	1126	1139						
18-	CFLUID2	5339	1139	1152						
19-	CFLUID2	5352	1152	1165						
20-	CFLUID2	5367	1165	1178						
21-	CFLUID2	8801	2179	2199						6.54-6
22-	CFLUID2	8811	2199	2219						6.54-6
23-	CFLUID2	8821	2219	2239						6.54-6
24-	CFLUID2	8831	2239	2259						6.54-6
25-	CFLUID2	8841	2259	2279						6.54-6
26-	CFLUID2	8851	2279	2300						6.54-6
27-	CFLUID2	8861	2300	2319						6.54-6
28-	CFLUID2	8871	2319	2342						6.54-6
29-	CFLUID2	8881	2342	2379						6.54-6
30-	CFLUID2	8891	2379	2399						6.54-6
31-	CFLUID2	8901	2399	2419						6.54-6
32-	CFLUID2	8911	2419	2439						6.54-6
33-	CFLUID3	5362	1142	1141	1154					
34-	CFLUID3	5354	1154	1153	1166					
35-	CFLUID3	5365	1165	1178	1179					
36-	CFLUID3	5366	1166	1165	1179					
37-	CFLUID3	8993	2401	2400	2420					6.54-6
38-	CFLUID3	8912	2420	2419	2439					6.54-6
39-	CFLUID4	5210	1010	1009	1022	1023				
40-	CFLUID4	5211	1011	1010	1023	1024				
41-	CFLUID4	5212	1012	1011	1024	1025				
42-	CFLUID4	5223	1023	1022	1035	1036				
43-	CFLUID4	5224	1024	1023	1036	1037				
44-	CFLUID4	5225	1025	1024	1037	1038				
45-	CFLUID4	5236	1036	1035	1048	1049				
46-	CFLUID4	5237	1037	1036	1049	1050				
47-	CFLUID4	5238	1038	1037	1050	1051				
48-	CFLUID4	5249	1049	1048	1051	1052				
49-	CFLUID4	5250	1050	1049	1052	1053				
50-	CFLUID4	5251	1051	1050	1053	1054				

JULY 3, 1974 NASTRAN 24.1.173

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
51-	CFLUID4	5262	1064	1063	1076	1077				
52-	CFLUID4	5263	1063	1062	1075	1076				
53-	CFLUID4	5264	1062	1061	1074	1075				
54-	CFLUID4	5275	1087	1088	1101	1101				
55-	CFLUID4	5276	1088	1089	1102	1101				
56-	CFLUID4	5277	1089	1090	1103	1102				
57-	CFLUID4	5288	1103	1102	1115	1116				
58-	CFLUID4	5289	1102	1101	1114	1115				
59-	CFLUID4	5290	1101	1100	1113	1114				
60-	CFLUID4	5301	1113	1114	1127	1126				
61-	CFLUID4	5302	1114	1115	1128	1127				
62-	CFLUID4	5303	1115	1116	1129	1128				
63-	CFLUID4	5314	1129	1128	1141	1142				
64-	CFLUID4	5315	1128	1127	1140	1141				
65-	CFLUID4	5316	1127	1126	1139	1140				
66-	CFLUID4	5327	1075	1074	1087	1088				
67-	CFLUID4	5328	1076	1075	1089	1089				
68-	CFLUID4	5329	1077	1076	1090	1089				
69-	CFLUID4	5340	1140	1139	1152	1153				
70-	CFLUID4	5341	1141	1140	1153	1154				
71-	CFLUID4	5353	1153	1152	1165	1166				6.54-6
72-	CFLUID4	8802	2179	2180	2200	2199				6.54-6
73-	CFLUID4	8803	2180	2181	2201	2200				6.54-6
74-	CFLUID4	8812	2199	2200	2220	2219				6.54-6
75-	CFLUID4	8813	2200	2201	2221	2220				6.54-6
76-	CFLUID4	8822	2219	2220	2240	2239				6.54-6
77-	CFLUID4	8823	2220	2221	2241	2240				6.54-6
78-	CFLUID4	8832	2239	2240	2250	2259				6.54-6
79-	CFLUID4	8833	2240	2241	2261	2260				6.54-6
80-	CFLUID4	8842	2259	2260	2280	2279				6.54-6
81-	CFLUID4	8843	2260	2261	2281	2280				6.54-6
82-	CFLUID4	8852	2279	2280	2301	2300				6.54-6
83-	CFLUID4	8853	2280	2281	2302	2301				6.54-6
84-	CFLUID4	8862	2300	2301	2320	2319				6.54-6
85-	CFLUID4	8863	2301	2302	2321	2320				6.54-6
86-	CFLUID4	8872	2319	2320	2343	2342				6.54-6
87-	CFLUID4	8873	2320	2321	2344	2343				6.54-6
88-	CFLUID4	8882	2342	2343	2390	2379				6.54-6
89-	CFLUID4	8883	2343	2344	2381	2380				6.54-6
90-	CFLUID4	8892	2379	2380	2400	2399				6.54-6
91-	CFLUID4	8893	2380	2381	2401	2400				6.54-6
92-	CFLUID4	8902	2399	2400	2420	2419				6.54-6
93-	CURD2C	69	0	-81.5683.0	35.5985	66.9096	0.0			26.5170 669
94-	69	68.25	0.0	48.432						
95-	CURD2C	100	696	74.738	-30.494	6.138	200.0	-30.494	6.138	6CS5RM
96-	6CS5RM	74.738	0.0	0.0						
97-	CURD2C	5001	0	-81.5683.0	35.5985	66.9096	0.0			26.5170 660
98-	6CS	68.25	0.0	48.432						
99-	CURD2C	5100	0	-81.5683.0	35.5985	66.9096	0.0			26.5170 665100
100-	2CS100	68.25	0.0	48.432						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
101-	COR2R	101	696	74.738	-30.494	6.138	74.738	-28.570115	6963	ERSSRM
102-	ERSSRM	200	-30.494	6.138						
103-	COR2R	696	0	-81.5683.0	35.5985	-80.2278.0	57.5136	6696		
104-	6696	68.25	0.0	48.432						
105-	COR2R	3001	0	-81.5683.0	35.5985	-80.2278.0	57.5136	6696		
106-	6696	68.25	0.0	48.432						
107-	COR2R	3002	696	245.7536-16.4631	11.0003	245.7536-13.75	24.9514	663002		
108-	663002	300	-16.4631	11.0003						
109-	COR2R	10000	0	-81.5683.0	35.5985	66.9056.0	26.5170	6610000		
110-	6610000	68.25	0.0	48.432						
111-	COR2S	10002	10000	0.0	0.0	32.14	0.0	0.0	33.14	6610002
112-	6610002	1	0	33.14						
113-	COR2S	10003	10000	0.0	0.0	37.65	0.0	0.0	38.65	6610003
114-	6610003	1	0	38.65						
115-	COR2S	10004	10000	0.0	0.0	44.12	0.0	0.0	45.12	6610004
116-	6610004	1	0	45.12						
117-	COR2S	10005	10000	0.0	0.0	52.52	0.0	0.0	53.52	6610005
118-	6610005	1	0	53.52						
119-	COR2S	10006	10000	0.0	0.0	58.68	0.0	0.0	59.68	6610006
120-	6610006	1	0	59.68						
121-	COR2S	10010	10006	0.0	0.0	81.19	0.0	0.0	82.19	6610010
122-	6610010	1	0	82.19						
123-	COR2S	10011	10000	0.0	0.0	79.13	0.0	0.0	80.13	6610011
124-	6610011	1	0	80.13						
125-	COR2S	10012	10000	0.0	0.0	76.08	0.0	0.0	77.08	6610012
126-	6610012	1	0	77.08						
127-	COR2S	10013	10000	0.0	0.0	76.87	0.0	0.0	77.87	6610013
128-	6610013	1	0	77.87						
129-	COR2S	10014	10000	0.0	0.0	73.78	0.0	0.0	74.78	6610014
130-	6610014	1	0	74.78						
131-	COR2S	10015	10000	0.0	0.0	77.08	0.0	0.0	78.08	6610015
132-	6610015	1	0	78.08						
133-	COR2S	10016	10000	0.0	0.0	83.94	0.0	0.0	84.94	6610016
134-	6610016	1	0	84.94						
135-	COR2S	20014	10000	0.0	0.0	255.71	0.0	0.0	256.71	6620014
136-	6620014	1	0	256.71						
137-	COR2S	20015	10000	0.0	0.0	244.69	0.0	0.0	245.69	6620015
138-	6620015	1	0	245.69						
139-	COR2S	20016	10000	0.0	0.0	248.21	0.0	0.0	249.21	6620016
140-	6620016	1	0	249.21						
141-	COR2S	20017	10000	0.0	0.0	248.52	0.0	0.0	249.52	6620017
142-	6620017	1	0	249.52						
143-	DMI	P9	0	2	1	2	1	216	1	
144-	DMI	P9	1	89	1	1	1	1	1	6PUE 01
145-	6PUE 01	1	1	1	1	1	1	1	1	6PUE 02
146-	6PUE 02	1	1	1	1	1	1	1	1	6PUE 03
147-	6PUE 03	1	1	1	1	1	1	1	1	6PUE 04
148-	6PUE 04	1	1	1	1	1	1	1	1	6PUE 05
149-	6PUE 05	1	1	1	1	1	1	1	1	6PUE 06
150-	6PUE 06	1	1	1	1	1	1	1	1	6PUE 07

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
151-	CPUE07	1.	1.	1.	1.	1.	1.	1.	1.	CPUE08
152-	CPUE08	1.	1.	1.	1.	1.	1.	1.	1.	CPUE09
153-	CPUE09	1.	1.	1.	1.	1.	1.	1.	1.	CPUE10
154-	CPUE10	1.	1.	1.	1.	1.	1.	1.	1.	CPUE11
155-	CPUE11	1.	1.	1.	1.	1.	1.	1.	1.	CPUE12
156-	CPUE12	1.	1.	1.	1.	1.	1.	1.	1.	CPUE13
157-	CPUE13	1.	1.	1.	1.	1.	1.	1.	1.	CPUE14
158-	CPUE14	1.	1.	1.	1.	1.	1.	1.	1.	CPUE15
159-	CPUE15	1.	1.	1.	1.	1.	1.	1.	1.	CPUE16
160-	CPUE16	1.	1.	1.	1.	1.	1.	1.	1.	
161-	EIGC	1	DET	MAX						EI
162-	EI	0.	0.	0.	500.	.001	10	10		
163-	FLSYM	2	S							
164-	GRID	5001	3001	19.96	.0	.0	3001			
165-	GRID	5126	696	83.78	-19.41073	9071	10010			
166-	GRID	5204	5001	.0	.0	97.98	3001			
167-	GRID	8001	696	101.86	.0	.0	696			
168-	GRID	8010	69	6.40	.0	102.55	69			
169-	GRID	8011	69	6.40	22.5	102.55	69			
170-	GRID	8012	69	6.40	45.0	102.55	69			
171-	GRID	8013	69	6.40	67.5	102.55	69			
172-	GRID	8014	69	6.40	90.0	102.55	69			
173-	GRID	8015	69	6.40	112.5	102.55	69			
174-	GRID	8016	69	6.40	135.0	102.55	69			
175-	GRID	8017	69	6.40	157.5	102.55	69			
176-	GRID	8018	69	6.40	180.0	102.55	69			
177-	GRID	8030	69	12.61	.0	105.32	69			
178-	GRID	8031	69	12.61	22.5	105.32	69			
179-	GRID	8032	69	12.61	45.0	105.32	69			
180-	GRID	8033	69	12.61	67.5	105.32	69			
181-	GRID	8034	69	12.61	90.0	105.32	69			
182-	GRID	8035	69	12.61	112.5	105.32	69			
183-	GRID	8036	69	12.61	135.0	105.32	69			
184-	GRID	8037	69	12.61	157.5	105.32	69			
185-	GRID	8038	69	12.61	180.0	105.32	69			
186-	GRID	8050	69	17.91	.0	110.38	69			
187-	GRID	8051	69	17.91	22.5	110.38	69			
188-	GRID	8052	69	17.91	45.0	110.38	69			
189-	GRID	8053	69	17.91	67.5	110.38	69			
190-	GRID	8054	69	17.91	90.0	110.38	69			
191-	GRID	8055	69	17.91	112.5	110.38	69			
192-	GRID	8056	69	17.91	135.0	110.38	69			
193-	GRID	8057	69	17.91	157.5	110.38	69			
194-	GRID	8058	69	17.91	180.0	110.38	69			
195-	GRID	8070	69	19.80	.0	113.70	69			
196-	GRID	8071	69	19.80	22.5	113.70	69			
197-	GRID	8072	69	19.80	45.0	113.70	69			
198-	GRID	8073	69	19.80	67.5	113.70	69			
199-	GRID	8074	696	113.70	-19.41073	9071	69			
200-	GRID	8075	69	19.80	90.0	113.70	69			

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
201-	GRID	8076	69	19.80	112.5	113.70	69			
202-	GRID	8077	69	19.80	135.0	113.70	69			
203-	GRID	8078	69	19.80	157.5	113.70	69			
204-	GRID	8079	69	19.80	180.0	113.70	69			
205-	GRID	8110	69	19.80	.0	91.98	69			
206-	GRID	8111	69	19.80	22.5	91.98	69			
207-	GRID	8112	69	19.80	45.0	91.98	69			
208-	GRID	8113	69	19.80	67.5	91.98	69			
209-	GRID	8114	696	91.98	-19.41073	9071	69			
210-	GRID	8115	69	19.80	93.0	91.98	69			
211-	GRID	8116	69	19.80	112.5	91.98	69			
212-	GRID	8117	69	19.80	135.0	91.98	69			
213-	GRID	8118	69	19.80	157.5	91.98	69			
214-	GRID	8119	69	19.80	180.0	91.98	69			
215-	GRID	8130	69	19.80	.0	99.98	69			
216-	GRID	8131	69	19.80	22.5	99.98	69			
217-	GRID	8132	69	19.80	45.0	99.98	69			
218-	GRID	8133	69	19.80	67.5	99.98	69			
219-	GRID	8134	696	99.98	-19.41073	9071	100			
220-	GRID	8135	69	19.80	93.0	99.98	69			
221-	GRID	8136	69	19.80	112.5	99.98	69			
222-	GRID	8137	69	19.80	135.0	99.98	69			
223-	GRID	8138	69	19.80	157.5	99.98	69			
224-	GRID	8139	69	19.80	180.0	99.98	69			
225-	GRID	8140	696	99.98	.0	3.9071	696	456		
226-	GRID	8150	69	19.80	.0	106.86	69			
227-	GRID	8151	69	19.80	22.5	106.86	69			
228-	GRID	8152	69	19.80	45.0	106.86	69			
229-	GRID	8153	69	19.80	67.5	106.86	69			
230-	GRID	8154	696	106.86	-19.41073	9071	69			
231-	GRID	8155	69	19.80	93.0	106.86	69			
232-	GRID	8156	69	19.80	112.5	106.86	69			
233-	GRID	8157	69	19.80	135.0	106.86	69			
234-	GRID	8158	69	19.80	157.5	106.86	69			
235-	GRID	8159	69	19.80	180.0	106.86	69			
236-	GRID	8209	696	148.756	.0	21.9561	696	1456		
237-	GRID	8299	696	229.156	.0	.0	696	456		
238-	GRID	8329	696	245.7536	.0	24.9514	696	456		
239-	GRID	8329	696	245.7536	-13.75	24.9514	3002	12456		
240-	GRID	8331	69	19.80	11.25	245.753669				
241-	GRID	8334	69	19.80	59.25	245.753669				
242-	GRID	8341	696	245.7536	.0	.0	696	456		
243-	GRID	8350	69	19.80	.0	270.988	69			
244-	GRID	8351	69	19.80	22.5	270.988	69			
245-	GRID	8352	696	270.988	-14.970212	9588	101			
246-	GRID	8353	69	19.80	67.5	270.988	69			
247-	GRID	8354	69	19.80	93.0	270.988	69			
248-	GRID	8355	696	270.988	-18.8181	-6.1577	101			
249-	GRID	8356	69	19.80	135.0	270.988	69			
250-	GRID	8357	69	19.80	157.5	270.988	69			

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CGOVT										
251-	GRID	8358	69	19.80	180.0	270.988	69			
252-	GRID	8359	696	270.938	.0	12.5588	696	456		
253-	GRID	8360	696	270.988	.0	-6.1577	696	456		
254-	GRID	8440	696	269.44	.0	.0	696			
255-	GRID	100200	5100	9.		23.	10002			
256-	GRID	100201	5100	9.		23.	10002			
257-	GRID	100202	5100	9.		23.	10002			
258-	GRID	100203	5100	9.		23.	10002			
259-	GRID	100300	5100	14.2		31.93	10003			
260-	GRID	100301	5100	14.2		31.93	10003			
261-	GRID	100302	5100	14.2		31.93	10003			
262-	GRID	100303	5100	14.2		31.93	10003			
263-	GRID	100430	5100	16.2		40.38	10004			
264-	GRID	100401	5100	16.2		40.38	10004			
265-	GRID	100402	5100	16.2		40.38	10004			
266-	GRID	100403	5100	16.2		40.38	10004			
267-	GRID	100500	5100	18.0		48.38	10005			
268-	GRID	100501	5100	18.0		48.38	10005			
269-	GRID	100502	5100	18.0		48.38	10005			
270-	GRID	100503	5100	18.0		48.38	10005			
271-	GRID	100600	5100	19.875		56.38	10006			
272-	GRID	100601	5100	19.875		56.38	10006			
273-	GRID	100602	5100	19.875		56.38	10006			
274-	GRID	100603	5100	19.875		56.38	10006			
275-	GRID	100700	5100	19.875		65.78	5100			
276-	GRID	100701	5100	19.875		65.78	5100			
277-	GRID	100702	5100	19.875		65.78	5100			
278-	GRID	100703	5100	19.875		65.78	5100			
279-	GRID	100800	5100	19.875		71.78	5100			
280-	GRID	100801	5100	19.875		71.78	5100			
281-	GRID	100802	5100	19.875		71.78	5100			
282-	GRID	100803	5100	19.875		71.78	5100			
283-	GRID	100900	5100	19.875		77.78	5100			
284-	GRID	100901	5100	19.875		77.78	5100			
285-	GRID	100902	5100	19.875		77.78	5100			
286-	GRID	100903	5100	19.875		77.78	5100			
287-	GRID	101000	5100	19.875		83.78	10010			
288-	GRID	101001	5100	19.875		83.78	10010			
289-	GRID	101002	5100	19.875		83.78	10010			
290-	GRID	101003	5100	19.875		83.78	10010			
291-	GRID	101100	5100	18.54		87.93	10011			
292-	GRID	101101	5100	18.54		87.93	10011			
293-	GRID	101102	5100	18.54		87.93	10011			
294-	GRID	101103	5100	18.54		87.93	10011			
295-	GRID	101200	5100	16.28		91.28	10012			
296-	GRID	101201	5100	16.28		91.28	10012			
297-	GRID	101202	5100	16.28		91.28	10012			
298-	GRID	101203	5100	16.28		91.28	10012			
299-	GRID	101300	5100	12.29		94.53	10013			
300-	GRID	101301	5100	12.29		94.53	10013			

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SORTED B J L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
301-	GRID	101302	5100	12.29	94.53	10013				
302-	GRID	101303	5100	12.29	94.53	10013				
303-	GRID	101400	5100	9.274	96.083	10014				
304-	GRID	101401	5100	9.274	96.083	10014				
305-	GRID	101402	5100	9.274	96.083	10014				
306-	GRID	101403	5100	9.274	96.083	10014				
307-	GRID	101500	5100	5.266	97.386	10015				
308-	GRID	101501	5100	5.266	97.386	10015				
309-	GRID	101502	5100	5.266	97.386	10015				
310-	GRID	101503	5100	5.266	97.386	10015				
311-	GRID	101600	5100	1.7375	97.912	10016				
312-	GRID	101601	5100	1.7375	97.912	10016				
313-	GRID	101602	5100	1.7375	97.912	10016				
314-	GRID	101603	5100	1.7375	97.912	10016				
315-	GRID	110100	69	19.8	91.98	69				
316-	GRID	110101	69	19.8	91.98	69				
317-	GRID	110102	69	19.8	91.98	69				
318-	GRID	110103	69	19.8	91.98	69				
319-	GRID	110200	69	19.8	99.98	69				
320-	GRID	110201	69	19.8	99.98	69				
321-	GRID	110202	69	19.8	99.98	69				
322-	GRID	110203	69	19.8	99.98	69				
323-	GRID	110300	69	19.8	106.86	69				
324-	GRID	110301	69	19.8	106.86	69				
325-	GRID	110302	69	19.8	106.86	69				
326-	GRID	110303	69	19.8	106.86	69				
327-	GRID	110400	69	19.8	113.70	69				
328-	GRID	110401	69	19.8	113.70	69				
329-	GRID	110402	69	19.8	113.70	69				
330-	GRID	110403	69	19.8	113.70	69				
331-	GRID	110500	69	19.8	128.75	69				
332-	GRID	110501	69	19.8	128.75	69				
333-	GRID	110502	69	19.8	128.75	69				
334-	GRID	110503	69	19.8	128.75	69				
335-	GRID	110600	69	19.8	139.06	69				
336-	GRID	110601	69	19.8	139.06	69				
337-	GRID	110602	69	19.8	139.06	69				
338-	GRID	110603	69	19.8	139.06	69				
339-	GRID	110700	69	19.8	148.756	69				
340-	GRID	110701	69	19.8	148.756	69				
341-	GRID	110702	69	19.8	148.756	69				
342-	GRID	110703	69	19.8	148.756	69				
343-	GRID	110800	69	19.8	168.75	69				
344-	GRID	110801	69	19.8	168.75	69				
345-	GRID	110802	69	19.8	168.75	69				
346-	GRID	110803	69	19.8	168.75	69				
347-	GRID	110900	69	19.8	188.75	69				
348-	GRID	110901	69	19.8	188.75	69				
349-	GRID	110902	69	19.8	188.75	69				
350-	GRID	110903	69	19.8	188.75	69				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CARD										
351-	GRID	111000 69	19.8		209.13 69					
352-	GRID	111001 69	19.8		209.13 69					
353-	GRID	111002 69	19.8		209.13 69					
354-	GRID	111003 69	19.8		209.13 69					
355-	GRID	111100 69	19.8		229.156 69					
356-	GRID	111101 69	19.8		229.156 69					
357-	GRID	111102 69	19.8		229.156 69					
358-	GRID	111103 69	19.8		229.156 69					
359-	GRID	111200 69	19.8		237.30 69					
360-	GRID	111201 69	19.8		237.30 69					
361-	GRID	111202 69	19.8		237.30 69					
362-	GRID	111203 69	19.8		237.30 69					
363-	GRID	111300 69	19.8		245.753669					
364-	GRID	111301 69	19.8		245.753669					
365-	GRID	111302 69	19.8		245.753669					
366-	GRID	111303 69	19.8		245.753669					
367-	GRID	111400 69	19.8		258.125 20014					
368-	GRID	111401 69	19.8		258.125 20014					
369-	GRID	111402 69	19.8		258.125 20014					
370-	GRID	111403 69	19.8		258.125 20014					
371-	GRID	111500 69	17.91		260.92 20015					
372-	GRID	111501 69	17.91		260.92 20015					
373-	GRID	111502 69	17.91		260.92 20015					
374-	GRID	111503 69	17.91		260.92 20015					
375-	GRID	111600 69	12.61		265.98 20016					
376-	GRID	111601 69	12.61		265.98 20016					
377-	GRID	111602 69	12.61		265.98 20016					
378-	GRID	111603 69	12.61		265.98 20016					
379-	GRID	111700 69	6.40		268.75 20017					
380-	GRID	111701 69	6.40		268.75 20017					
381-	GRID	111702 69	6.40		268.75 20017					
382-	GRID	111703 69	6.40		268.75 20017					
383-	GRID	5013	9.000	300	24.000	10002				1012
384-	GRID	5014	9.000	22.500	24.000	10002				1012
385-	GRID	5015	9.000	45.000	24.000	10002				1012
386-	GRID	5016	9.000	67.500	24.000	10002				1012
387-	GRID	5017	9.000	90.000	24.000	10002				1012
388-	GRID	5018	9.000	112.500	24.000	10002				1012
389-	GRID	5019	9.000	135.000	24.000	10002				1012
390-	GRID	5020	9.000	157.500	24.000	10002				1012
391-	GRID	5021	9.000	180.000	24.000	10002				1012
392-	GRID	5026	5001	14.200	300	10003				1025
393-	GRID	5027	5001	14.200	22.500	10003				1025
394-	GRID	5028	5001	14.200	45.000	10003				1025
395-	GRID	5029	5001	14.200	67.500	10003				1025
396-	GRID	5030	5001	14.200	90.000	10003				1025
397-	GRID	5031	5001	14.200	112.500	10003				1025
398-	GRID	5032	5001	14.200	135.000	10003				1025
399-	GRID	5033	5001	14.200	157.500	10003				1025
400-	GRID	5034	5001	14.200	180.000	10003				1025

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
401-	GRIDB	5039	5001	16.200	300	40.380	10004		1038	
402-	GRIDB	5040	5001	16.200	22.500	40.380	10004		1038	
403-	GRIDB	5041	5001	16.200	45.000	40.380	10004		1038	
404-	GRIDB	5042	5001	16.200	67.500	40.380	10004		1038	
405-	GRIDB	5043	5001	16.200	90.000	40.380	10004		1038	
406-	GRIDB	5044	5001	16.200	112.500	40.380	10004		1038	
407-	GRIDB	5045	5001	16.200	135.000	40.380	10004		1038	
408-	GRIDB	5046	5001	16.200	157.500	40.380	10004		1038	
409-	GRIDB	5047	5001	16.200	180.000	40.380	10004		1038	
410-	GRIDB	5052	5001	18.000	0.000	48.380	10005		1051	
411-	GRIDB	5053	5001	18.000	22.500	48.380	10005		1051	
412-	GRIDB	5054	5001	18.000	45.000	48.380	10005		1051	
413-	GRIDB	5055	5001	18.000	67.500	48.380	10005		1051	
414-	GRIDB	5056	5001	18.000	90.000	48.380	10005		1051	
415-	GRIDB	5057	5001	18.000	112.500	48.380	10005		1051	
416-	GRIDB	5058	5001	18.000	135.000	48.380	10005		1051	
417-	GRIDB	5059	5001	18.000	157.500	48.380	10005		1051	
418-	GRIDB	5060	5001	18.000	180.000	48.380	10005		1051	
419-	GRIDB	5065	5001	19.875	0.000	56.280	10006		1064	
420-	GRIDB	5066	5001	19.875	22.500	56.280	10006		1064	
421-	GRIDB	5067	5001	19.875	45.000	56.280	10006		1064	
422-	GRIDB	5068	5001	19.875	67.500	56.280	10006		1064	
423-	GRIDB	5069	5001	19.875	90.000	56.280	10006		1064	
424-	GRIDB	5070	5001	19.875	112.500	56.280	10006		1064	
425-	GRIDB	5071	5001	19.875	135.000	56.280	10006		1064	
426-	GRIDB	5072	5001	19.875	157.500	56.280	10006		1064	
427-	GRIDB	5073	5001	19.875	180.000	56.280	10006		1064	
428-	GRIDB	5078	5001	19.875	0.000	65.780	10006		1077	
429-	GRIDB	5079	5001	19.875	22.500	65.780	10006		1077	
430-	GRIDB	5080	5001	19.875	45.000	65.780	10006		1077	
431-	GRIDB	5081	5001	19.875	67.500	65.780	10006		1077	
432-	GRIDB	5082	5001	19.875	90.000	65.780	10006		1077	
433-	GRIDB	5083	5001	19.875	112.500	65.780	10006		1077	
434-	GRIDB	5084	5001	19.875	135.000	65.780	10006		1077	
435-	GRIDB	5085	5001	19.875	157.500	65.780	10006		1077	
436-	GRIDB	5085	5001	19.875	180.000	65.780	10006		1077	
437-	GRIDB	5091	5001	19.875	0.000	71.780	10006		1090	
438-	GRIDB	5092	5001	19.875	22.500	71.780	10006		1090	
439-	GRIDB	5093	5001	19.875	45.000	71.780	10006		1090	
440-	GRIDB	5094	5001	19.875	67.500	71.780	10006		1090	
441-	GRIDB	5095	5001	19.875	90.000	71.780	10006		1090	
442-	GRIDB	5096	5001	19.875	112.500	71.780	10006		1090	
443-	GRIDB	5097	5001	19.875	135.000	71.780	10006		1090	
444-	GRIDB	5098	5001	19.875	157.500	71.780	10006		1090	
445-	GRIDB	5099	5001	19.875	180.000	71.780	10006		1090	
446-	GRIDB	5104	5001	19.875	0.000	77.780	10006		1103	
447-	GRIDB	5105	5001	19.875	22.500	77.780	10006		1103	
448-	GRIDB	5106	5001	19.875	45.000	77.780	10006		1103	
449-	GRIDB	5107	5001	19.875	67.500	77.780	10006		1103	
450-	GRIDB	5108	5001	19.875	90.000	77.780	10006		1103	

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
451-	GRIDB	5109	5001	19.875	112.500	77.780	5100			1103
452-	GRIDB	5110	5001	19.875	135.000	77.780	5100			1103
453-	GRIDB	5111	5001	19.875	157.500	77.780	5100			1103
454-	GRIDB	5112	5001	19.875	180.000	77.780	5100			1103
455-	GRIDB	5117	5001	19.8	.090	83.780	10010			1116
456-	GRIDB	5118	5001	19.8	22.500	83.780	10010			1116
457-	GRIDB	5119	5001	19.8	45.000	83.780	10010			1116
458-	GRIDB	5120	5001	19.8	67.500	83.780	10010			1116
459-	GRIDB	5121	5001	19.8	90.000	83.780	10010			1116
460-	GRIDB	5122	5001	19.8	112.500	83.780	10010			1116
461-	GRIDB	5123	5001	19.8	135.000	83.780	10010			1116
462-	GRIDB	5124	5001	19.8	157.500	83.780	10010			1116
463-	GRIDB	5125	5001	19.8	180.000	83.780	10010			1116
464-	GRIDB	5130	5001	18.54	.0	87.93	10011			1129
465-	GRIDB	5131	5001	18.54	22.5	87.93	10011			1129
466-	GRIDB	5132	5001	18.54	45.0	87.93	10011			1129
467-	GRIDB	5133	5001	18.54	67.5	87.93	10011			1129
468-	GRIDB	5134	5001	18.54	90.0	87.93	10011			1129
469-	GRIDB	5135	5001	18.54	112.5	87.93	10011			1129
470-	GRIDB	5136	5001	18.54	135.0	87.93	10011			1129
471-	GRIDB	5137	5001	18.54	157.5	87.93	10011			1129
472-	GRIDB	5138	5001	18.54	180.0	87.93	10011			1129
473-	GRIDB	5143	5001	16.28	.0	91.28	10012			1142
474-	GRIDB	5144	5001	16.28	22.5	91.28	10012			1142
475-	GRIDB	5145	5001	16.28	45.0	91.28	10012			1142
476-	GRIDB	5146	5001	16.28	67.5	91.28	10012			1142
477-	GRIDB	5147	5001	16.28	90.0	91.28	10012			1142
478-	GRIDB	5148	5001	16.28	112.5	91.28	10012			1142
479-	GRIDB	5149	5001	16.28	135.0	91.28	10012			1142
480-	GRIDB	5150	5001	16.28	157.5	91.28	10012			1142
481-	GRIDB	5151	5001	16.28	180.0	91.28	10012			1142
482-	GRIDB	5156	5001	12.29	.0	94.53	10013			1154
483-	GRIDB	5157	5001	12.29	22.5	94.53	10013			1154
484-	GRIDB	5158	5001	12.29	45.0	94.53	10013			1154
485-	GRIDB	5159	5001	12.29	67.5	94.53	10013			1154
486-	GRIDB	5160	5001	12.29	90.0	94.53	10013			1154
487-	GRIDB	5161	5001	12.29	112.5	94.53	10013			1154
488-	GRIDB	5162	5001	12.29	135.0	94.53	10013			1154
489-	GRIDB	5163	5001	12.29	157.5	94.53	10013			1154
490-	GRIDB	5164	5001	12.29	180.0	94.53	10013			1154
491-	GRIDB	5169	5001	9.274	.0	96.083	10014			1166
492-	GRIDB	5170	5001	9.274	22.5	96.083	10014			1166
493-	GRIDB	5171	5001	9.274	45.0	96.083	10014			1166
494-	GRIDB	5172	5001	9.274	67.5	96.083	10014			1166
495-	GRIDB	5173	5001	9.274	90.0	96.083	10014			1166
496-	GRIDB	5174	5001	9.274	112.5	96.083	10014			1166
497-	GRIDB	5175	5001	9.274	135.0	96.083	10014			1166
498-	GRIDB	5176	5001	9.274	157.5	96.083	10014			1166
499-	GRIDB	5177	5001	9.274	180.0	96.083	10014			1166
500-	GRIDB	5182	5001	5.206	.0	97.306	10015			1179

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OF POOR QUALITY

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
501-	GRIDB	5183	5001	5.266	22.5	97.386	10015			1179
502-	GRIDB	5184	5001	5.266	45.	97.386	10015			1179
503-	GRIDB	5185	5001	5.266	67.5	97.386	10015			1179
504-	GRIDB	5186	5001	5.266	90.	97.386	10015			1179
505-	GRIDB	5187	5001	5.266	112.5	97.386	10015			1179
506-	GRIDB	5188	5001	5.266	135.0	97.386	10015			1179
507-	GRIDB	5189	5001	5.266	157.5	97.386	10015			1179
508-	GRIDB	5190	5001	5.266	180.	97.386	10015			1179
509-	GRIDB	5195	5001	1.785	.0	97.912	10016			1178
510-	GRIDB	5196	5001	1.785	22.5	97.912	10016			1178
511-	GRIDB	5197	5001	1.785	45.	97.912	10016			1178
512-	GRIDB	5198	5001	1.785	67.5	97.912	10016			1178
513-	GRIDB	5199	5001	1.785	90.	97.912	10016			1178
514-	GRIDB	5200	5001	1.785	112.5	97.912	10016			1178
515-	GRIDB	5201	5001	1.785	135.0	97.912	10016			1178
516-	GRIDB	5202	5001	1.785	157.5	97.912	10016			1178
517-	GRIDB	5203	5001	1.785	180.	97.912	10016			1178
518-	GRIDB	8170	69	19.80	.0	128.35	5100			2181
519-	GRIDB	8171	69	19.80	22.5	128.35	5100			2181
520-	GRIDB	8172	69	19.80	45.0	128.35	5100			2181
521-	GRIDB	8173	69	19.80	67.5	128.35	5100			2181
522-	GRIDB	8174	69	19.80	90.0	128.35	5100			2181
523-	GRIDB	8175	69	19.80	112.5	128.35	5100			2181
524-	GRIDB	8176	69	19.80	135.0	128.35	5100			2181
525-	GRIDB	8177	69	19.80	157.5	128.35	5100			2181
526-	GRIDB	8178	69	19.80	180.0	128.35	5100			2181
527-	GRIDB	8190	69	19.80	.0	139.06	5100			2201
528-	GRIDB	8191	69	19.80	22.5	139.06	5100			2201
529-	GRIDB	8192	69	19.80	45.0	139.06	5100			2201
530-	GRIDB	8193	69	19.80	67.5	139.06	5100			2201
531-	GRIDB	8194	69	19.80	90.0	139.06	5100			2201
532-	GRIDB	8195	69	19.80	112.5	139.06	5100			2201
533-	GRIDB	8196	69	19.80	135.0	139.06	5100			2201
534-	GRIDB	8197	69	19.80	157.5	139.06	5100			2201
535-	GRIDB	8198	69	19.80	180.0	139.06	5100			2201
536-	GRIDB	8210	69	19.80	.0	148.756	5100			2221
537-	GRIDB	8211	69	19.80	22.5	148.756	5100			2221
538-	GRIDB	8212	69	19.80	45.0	148.756	5100			2221
539-	GRIDB	8213	69	19.80	67.5	148.756	5100			2221
540-	GRIDB	8214	69	19.80	90.0	148.756	5100			2221
541-	GRIDB	8215	69	19.80	112.5	148.756	5100			2221
542-	GRIDB	8216	69	19.80	135.0	148.756	5100			2221
543-	GRIDB	8217	69	19.80	157.5	148.756	5100			2221
544-	GRIDB	8218	69	19.80	180.0	148.756	5100			2221
545-	GRIDB	8230	69	19.80	.0	168.75	5100			2241
546-	GRIDB	8231	69	19.80	22.5	168.75	5100			2241
547-	GRIDB	8232	69	19.80	45.0	168.75	5100			2241
548-	GRIDB	8233	69	19.80	67.5	168.75	5100			2241
549-	GRIDB	8234	69	19.80	90.0	168.75	5100			2241
550-	GRIDB	8235	69	19.80	112.5	168.75	5100			2241

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SORTED BULK DATA ECHO

CAPT	1	2	3	4	5	6	7	8	9	10
551-	GRIDB 8236	69	19.80	135.0	168.75	5100			2241	
552-	GRIDB 8237	69	19.80	157.5	168.75	5100			2241	
553-	GRIDB 8238	69	19.80	180.0	168.75	5100			2241	
554-	GRIDB 8250	69	19.80	.0	188.75	5100			2261	
555-	GRIDB 8251	69	19.80	22.5	188.75	5100			2261	
556-	GRIDB 8252	69	19.80	45.0	188.75	5100			2261	
557-	GRIDB 8253	69	19.80	67.5	188.75	5100			2261	
558-	GRIDB 8254	69	19.80	90.0	188.75	5100			2261	
559-	GRIDB 8255	69	19.80	112.5	188.75	5100			2261	
560-	GRIDB 8256	69	19.80	135.0	188.75	5100			2261	
561-	GRIDB 8257	69	19.80	157.5	188.75	5100			2261	
562-	GRIDB 8258	69	19.80	180.0	188.75	5100			2261	
563-	GRIDB 8270	69	19.80	.0	209.13	5100			2281	
564-	GRIDB 8271	69	19.80	22.5	209.13	5100			2281	
565-	GRIDB 8272	69	19.80	45.0	209.13	5100			2281	
566-	GRIDB 8273	69	19.80	67.5	209.13	5100			2281	
567-	GRIDB 8274	69	19.80	90.0	209.13	5100			2281	
568-	GRIDB 8275	69	19.80	112.5	209.13	5100			2281	
569-	GRIDB 8276	69	19.80	135.0	209.13	5100			2281	
570-	GRIDB 8277	69	19.80	157.5	209.13	5100			2281	
571-	GRIDB 8278	69	19.80	180.0	209.13	5100			2281	
572-	GRIDB 8290	69	19.80	.0	229.156	5100			2302	
573-	GRIDB 8291	69	19.80	22.5	229.156	5100			2302	
574-	GRIDB 8292	69	19.80	45.0	229.156	5100			2302	
575-	GRIDB 8293	69	19.80	67.5	229.156	5100			2302	
576-	GRIDB 8294	69	19.80	90.0	229.156	5100			2302	
577-	GRIDB 8295	69	19.80	112.5	229.156	5100			2302	
578-	GRIDB 8296	69	19.80	135.0	229.156	5100			2302	
579-	GRIDB 8297	69	19.80	157.5	229.156	5100			2302	
580-	GRIDB 8298	69	19.80	180.0	229.156	5100			2302	
581-	GRIDB 8310	69	19.80	.0	237.30	5100			2321	
582-	GRIDB 8311	69	19.80	22.5	237.30	5100			2321	
583-	GRIDB 8312	69	19.80	45.0	237.30	5100			2321	
584-	GRIDB 8313	69	19.80	67.5	237.30	5100			2321	
585-	GRIDB 8314	69	19.80	90.0	237.30	5100			2321	
586-	GRIDB 8315	69	19.80	112.5	237.30	5100			2321	
587-	GRIDB 8316	69	19.80	135.0	237.30	5100			2321	
588-	GRIDB 8317	69	19.80	157.5	237.30	5100			2321	
589-	GRIDB 8318	69	19.80	180.0	237.30	5100			2321	
590-	GRIDB 8330	69	19.80	.0	245.75365	100			2344	
591-	GRIDB 8332	69	19.80	22.5	245.75365	100			2344	
592-	GRIDB 8333	69	19.80	45.0	245.75365	100			2344	
593-	GRIDB 8335	69	19.80	67.5	245.75365	100			2344	
594-	GRIDB 8336	69	19.80	90.0	245.75365	100			2344	
595-	GRIDB 8337	69	19.80	112.5	245.75365	100			2344	
596-	GRIDB 8338	69	19.80	135.0	245.75365	100			2344	
597-	GRIDB 8339	69	19.80	157.5	245.75365	100			2344	
598-	GRIDB 8340	69	19.80	180.0	245.75365	100			2344	
599-	GRIDB 8370	69	19.80	.0	258.125	20014			2381	
600-	GRIDB 8371	69	19.80	22.5	258.125	20014			2381	

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
601-	GRIDB	8372	69	19.80	45.0	258.125	20014			2381	
602-	GRIDB	8373	69	19.80	67.5	258.125	20014			2381	
603-	GRIDB	8374	69	19.80	90.0	258.125	20014			2381	
604-	GRIDB	8375	69	19.80	112.5	258.125	20014			2381	
605-	GRIDB	8376	69	19.80	135.0	258.125	20014			2381	
605-	GRIDB	8377	69	19.80	157.5	258.125	20014			2381	
607-	GRIDB	8378	69	19.80	180.0	258.125	20014			2381	
609-	GRIDB	8390	69	17.91	.0	260.92	20015			2401	
609-	GRIDB	8391	69	17.91	22.5	260.92	20015			2401	
610-	GRIDB	8392	69	17.91	45.0	260.92	20015			2401	
611-	GRIDB	8393	69	17.91	67.5	260.92	20015			2401	
612-	GRIDB	8394	69	17.91	90.0	260.92	20015			2401	
613-	GRIDB	8395	69	17.91	112.5	260.92	20015			2401	
614-	GRIDB	8396	69	17.91	135.0	260.92	20015			2401	
615-	GRIDB	8397	69	17.91	157.5	260.92	20015			2401	
616-	GRIDB	8398	69	17.91	180.0	260.92	20015			2401	
617-	GRIDB	8410	69	12.61	.0	265.98	20016			2420	
618-	GRIDB	8411	69	12.61	22.5	265.98	20016			2420	
619-	GRIDB	8412	69	12.61	45.0	265.98	20016			2420	
620-	GRIDB	8413	69	12.61	67.5	265.98	20016			2420	
621-	GRIDB	8414	69	12.61	90.0	265.98	20016			2420	
622-	GRIDB	8415	69	12.61	112.5	265.98	20016			2420	
623-	GRIDB	8416	69	12.61	135.0	265.98	20016			2420	
624-	GRIDB	8417	69	12.61	157.5	265.98	20016			2420	
625-	GRIDB	8418	69	12.61	180.0	265.98	20016			2420	
626-	GRIDB	8430	69	6.40	.0	268.75	20017			2439	
627-	GRIDB	8431	69	6.40	22.5	268.75	20017			2439	
628-	GRIDB	8432	69	6.40	45.0	268.75	20017			2439	
629-	GRIDB	8433	69	6.40	67.5	268.75	20017			2439	
630-	GRIDB	8434	69	6.40	90.0	268.75	20017			2439	
631-	GRIDB	8435	69	6.40	112.5	268.75	20017			2439	
632-	GRIDB	8436	69	6.40	135.0	268.75	20017			2439	
633-	GRIDB	8437	69	6.40	157.5	268.75	20017			2439	
634-	GRIDB	8438	69	6.40	180.0	268.75	20017			2439	
635-	MPC		5013		-1.	100.200	1	1.00000		CM501311	
636-	CM501311		100201		1.00000	100.202	1	1.00000		CM501321	
637-	CM501321		100203		1.00000						
639-	MPC		5014		-1.	100.200	1	1.00000		CM501411	
639-	CM501411		100201		1.00000	100.202	1	1.00000		CM501421	
640-	CM501421		100203		1.00000						
641-	MPC		5015		-1.	100.200	1	1.00000		CM501511	
642-	CM501511		100201		1.00000	100.202	1	1.00000		CM501521	
643-	CM501521		100203		1.00000						
644-	MPC		5016		-1.	100.200	1	1.00000		CM501611	
645-	CM501611		100201		1.00000	100.202	1	1.00000		CM501621	
646-	CM501621		100203		1.00000						
647-	MPC		5017		-1.	100.200	1	1.00000		CM501711	
648-	CM501711		100201		1.00000	100.202	1	1.00000		CM501721	
649-	CM501721		100203		1.00000						
650-	MPC		5018		-1.	100.200	1	1.00000		CM501811	

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
651-	EM501811	100201	100201	100202	100202	100202	100202	100202	100202	EM501821
652-	EM501821	100203	100203	100203	100203	100203	100203	100203	100203	EM501911
653-	MPC	5019	100201	100201	100202	100202	100202	100202	100202	EM501921
654-	EM501911	100203	100203	100203	100203	100203	100203	100203	100203	EM502011
655-	EM501921	100201	100201	100201	100202	100202	100202	100202	100202	EM502021
656-	MPC	5020	100201	100201	100202	100202	100202	100202	100202	EM502111
657-	EM502011	100203	100203	100203	100203	100203	100203	100203	100203	EM502121
658-	EM502021	100201	100201	100201	100202	100202	100202	100202	100202	EM502211
659-	MPC	5021	100201	100201	100202	100202	100202	100202	100202	EM502221
660-	EM502111	100203	100203	100203	100203	100203	100203	100203	100203	EM502611
661-	EM502121	100201	100201	100201	100202	100202	100202	100202	100202	EM502621
662-	MPC	5026	100201	100201	100202	100202	100202	100202	100202	EM502711
663-	EM502611	100301	100301	100301	100302	100302	100302	100302	100302	EM502721
664-	EM502621	100303	100303	100303	100303	100303	100303	100303	100303	EM502811
665-	MPC	5027	100301	100301	100302	100302	100302	100302	100302	EM502821
666-	EM502711	100303	100303	100303	100303	100303	100303	100303	100303	EM502911
667-	EM502721	100301	100301	100301	100302	100302	100302	100302	100302	EM502921
668-	MPC	5028	100301	100301	100302	100302	100302	100302	100302	EM503011
669-	EM502811	100303	100303	100303	100303	100303	100303	100303	100303	EM503021
670-	EM502821	100301	100301	100301	100302	100302	100302	100302	100302	EM503111
671-	MPC	5029	100301	100301	100302	100302	100302	100302	100302	EM503121
672-	EM502911	100303	100303	100303	100303	100303	100303	100303	100303	EM503211
673-	EM502921	100301	100301	100301	100302	100302	100302	100302	100302	EM503221
674-	MPC	5030	100301	100301	100302	100302	100302	100302	100302	EM503311
675-	EM503011	100303	100303	100303	100303	100303	100303	100303	100303	EM503321
676-	EM503021	100301	100301	100301	100302	100302	100302	100302	100302	EM503411
677-	MPC	5031	100301	100301	100302	100302	100302	100302	100302	EM503421
678-	EM503111	100303	100303	100303	100303	100303	100303	100303	100303	EM503911
679-	EM503121	100301	100301	100301	100302	100302	100302	100302	100302	EM503921
680-	MPC	5032	100301	100301	100302	100302	100302	100302	100302	EM504011
681-	EM503211	100303	100303	100303	100303	100303	100303	100303	100303	EM504021
682-	EM503221	100301	100301	100301	100302	100302	100302	100302	100302	EM504111
683-	MPC	5033	100301	100301	100302	100302	100302	100302	100302	EM504121
684-	EM503311	100303	100303	100303	100303	100303	100303	100303	100303	EM504211
685-	EM503321	100301	100301	100301	100302	100302	100302	100302	100302	EM504221
686-	MPC	5034	100301	100301	100302	100302	100302	100302	100302	
687-	EM503411	100303	100303	100303	100303	100303	100303	100303	100303	
688-	EM503421	100301	100301	100301	100302	100302	100302	100302	100302	
689-	MPC	5039	100301	100301	100302	100302	100302	100302	100302	
690-	EM503911	100303	100303	100303	100303	100303	100303	100303	100303	
691-	EM503921	100301	100301	100301	100302	100302	100302	100302	100302	
692-	MPC	5040	100301	100301	100302	100302	100302	100302	100302	
693-	EM504011	100303	100303	100303	100303	100303	100303	100303	100303	
694-	EM504021	100301	100301	100301	100302	100302	100302	100302	100302	
695-	MPC	5041	100301	100301	100302	100302	100302	100302	100302	
696-	EM504111	100303	100303	100303	100303	100303	100303	100303	100303	
697-	EM504121	100301	100301	100301	100302	100302	100302	100302	100302	
698-	MPC	5042	100301	100301	100302	100302	100302	100302	100302	
699-	EM504211	100303	100303	100303	100303	100303	100303	100303	100303	
700-	EM504221	100301	100301	100301	100302	100302	100302	100302	100302	

ORIGINAL PAGE IS OF POOR QUALITY

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT	1	5043	1	100401	1	100400	1	1.00000	1	CM504311
701-	MPC			100403	1	100402	1	1.00000	1	CM504321
702-	CM504311			100403	1	100400	1	1.00000	1	CM504411
703-	CM504321			100401	1	100402	1	1.00000	1	CM504421
704-	MPC			100403	1	100400	1	1.00000	1	CM504511
705-	CM504411			100401	1	100402	1	1.00000	1	CM504521
706-	CM504421			100403	1	100400	1	1.00000	1	CM504611
707-	MPC			100401	1	100402	1	1.00000	1	CM504621
708-	CM504511			100403	1	100400	1	1.00000	1	CM504711
709-	CM504521			100401	1	100402	1	1.00000	1	CM504721
710-	MPC			100403	1	100400	1	1.00000	1	CM505211
711-	CM504611			100401	1	100402	1	1.00000	1	CM505221
712-	CM504621			100403	1	100400	1	1.00000	1	CM505311
713-	MPC			100401	1	100402	1	1.00000	1	CM505321
714-	CM504711			100403	1	100400	1	1.00000	1	CM505411
715-	CM504721			100401	1	100402	1	1.00000	1	CM505421
716-	MPC			100403	1	100400	1	1.00000	1	CM505511
717-	CM505211			100401	1	100402	1	1.00000	1	CM505521
718-	CM505221			100403	1	100400	1	1.00000	1	CM505611
719-	MPC			100401	1	100402	1	1.00000	1	CM505621
720-	CM505311			100403	1	100400	1	1.00000	1	CM505711
721-	CM505321			100401	1	100402	1	1.00000	1	CM505721
722-	MPC			100403	1	100400	1	1.00000	1	CM505811
723-	CM505411			100401	1	100402	1	1.00000	1	CM505821
724-	CM505421			100403	1	100400	1	1.00000	1	CM505911
725-	MPC			100401	1	100402	1	1.00000	1	CM505921
726-	CM505511			100403	1	100400	1	1.00000	1	CM506011
727-	CM505521			100401	1	100402	1	1.00000	1	CM506021
728-	MPC			100403	1	100400	1	1.00000	1	CM50611
729-	CM505611			100401	1	100402	1	1.00000	1	CM50621
730-	CM505621			100403	1	100400	1	1.00000	1	CM506711
731-	MPC			100401	1	100402	1	1.00000	1	CM506721
732-	CM505711			100403	1	100400	1	1.00000	1	CM506811
733-	CM505721			100401	1	100402	1	1.00000	1	CM506821
734-	MPC			100403	1	100400	1	1.00000	1	CM506911
735-	CM505811			100401	1	100402	1	1.00000	1	CM506921
736-	CM505821			100403	1	100400	1	1.00000	1	CM507011
737-	MPC			100401	1	100402	1	1.00000	1	CM507021
738-	CM505911			100403	1	100400	1	1.00000	1	CM50711
739-	CM505921			100401	1	100402	1	1.00000	1	CM50721
740-	MPC			100403	1	100400	1	1.00000	1	CM50731
741-	CM506011			100401	1	100402	1	1.00000	1	CM50741
742-	CM506021			100403	1	100400	1	1.00000	1	CM50751
743-	MPC			100401	1	100402	1	1.00000	1	CM50761
744-	CM506511			100403	1	100400	1	1.00000	1	CM50771
745-	CM506521			100401	1	100402	1	1.00000	1	CM50781
746-	MPC			100403	1	100400	1	1.00000	1	CM50791
747-	CM506611			100401	1	100402	1	1.00000	1	CM50801
748-	CM506621			100403	1	100400	1	1.00000	1	CM50811
749-	MPC			100401	1	100402	1	1.00000	1	CM50821
750-	CM506711			100403	1	100400	1	1.00000	1	CM50831

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
751-	CM506721	1	100603	1	1-3.70711					CM506811
752-	MPC	5068			100600	1	1-0.70711	1.00000		CM506821
753-	CM506811	1	100601	1	1-0.38258	100602				
754-	CM506821	1	100603	1	1-0.92338					
755-	MPC	5069			100600	1	1-1.00000	1.00000		CM506911
756-	CM506911	1	100601	1	1-0.00030	100602				CM506921
757-	CM506921	1	100603	1	1-0.00030					
758-	MPC	5070			100600	1	1-1.00000	1.00000		CM507011
759-	CM507011	1	100601	1	1-0.38258	100602				CM507021
760-	CM507021	1	100603	1	1-0.92338					
761-	MPC	5071			100600	1	1-1.00000	1.00000		CM507111
762-	CM507111	1	100601	1	1-0.70711	100602				CM507121
763-	CM507121	1	100603	1	1-0.70711					
764-	MPC	5072			100600	1	1-1.00000	1.00000		CM507211
765-	CM507211	1	100601	1	1-0.92338	100602				CM507221
766-	CM507221	1	100603	1	1-0.38258					
767-	MPC	5073			100600	1	1-1.00000	1.00000		CM507311
768-	CM507311	1	100601	1	1-1.00000	100602				CM507321
769-	CM507321	1	100603	1	1-1.00000					
770-	MPC	5078			100700	1	1-1.00000	1.00000		CM507811
771-	CM507811	1	100701	1	1-1.00000	100702				CM507821
772-	CM507821	1	100703	1	1-1.00000					
773-	MPC	5079			100700	1	1-1.00000	1.00000		CM507911
774-	CM507911	1	100701	1	1-0.92338	100702				CM507921
775-	CM507921	1	100703	1	1-0.38258					
776-	MPC	5080			100700	1	1-1.00000	1.00000		CM508011
777-	CM508011	1	100701	1	1-0.70711	100702				CM508021
778-	CM508021	1	100703	1	1-0.70711					
779-	MPC	5081			100700	1	1-1.00000	1.00000		CM508111
780-	CM508111	1	100701	1	1-0.38258	100702				CM508121
781-	CM508121	1	100703	1	1-0.92338					
782-	MPC	5082			100700	1	1-1.00000	1.00000		CM508211
783-	CM508211	1	100701	1	1-0.00000	100702				CM508221
784-	CM508221	1	100703	1	1-0.00000					
785-	MPC	5083			100700	1	1-1.00000	1.00000		CM508311
786-	CM508311	1	100701	1	1-0.38258	100702				CM508321
787-	CM508321	1	100703	1	1-0.92338					
788-	MPC	5084			100700	1	1-1.00000	1.00000		CM508411
789-	CM508411	1	100701	1	1-0.70711	100702				CM508421
790-	CM508421	1	100703	1	1-0.70711					
791-	MPC	5085			100700	1	1-1.00000	1.00000		CM508511
792-	CM508511	1	100701	1	1-0.92338	100702				CM508521
793-	CM508521	1	100703	1	1-0.38258					
794-	MPC	5086			100700	1	1-1.00000	1.00000		CM508611
795-	CM508611	1	100701	1	1-1.00000	100702				CM508621
796-	CM508621	1	100703	1	1-1.00000					
797-	MPC	5091			100800	1	1-1.00000	1.00000		CM509111
798-	CM509111	1	100801	1	1-1.00000	100802				CM509121
799-	CM509121	1	100803	1	1-1.00000					
800-	MPC	5092			100800	1	1-1.00000	1.00000		CM509211

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
801-	EM509211	10801	10801	1 0.92388	100802	1 0.70711				EM509221
802-	EM509221	10803	10803	1 0.38268						EM509311
803-	MPC	5093	1	-1.	100800	1	1 0.00000			EM509321
804-	EM509311	10801	10801	1 0.70711	100802					EM509411
805-	EM509321	10803	10803	1 0.70711						EM509421
806-	MPC	5094	1	-1.	100800	1	1 0.00000			EM509511
807-	EM509411	10801	10801	1 0.38268	100802					EM509521
808-	EM509421	10803	10803	1 0.92388						EM509611
809-	MPC	5095	1	-1.	100800	1	1 0.00000			EM509621
810-	EM509511	10801	10801	1 0.00000	100802					EM509711
811-	EM509521	10803	10803	1 0.00000						EM509721
812-	MPC	5096	1	-1.	100800	1	1 0.00000			EM509811
813-	EM509611	10801	10801	1 0.38268	100802					EM509821
814-	EM509621	10803	10803	1 0.92388						EM509911
815-	MPC	5097	1	-1.	100800	1	1 0.00000			EM509921
816-	EM509711	10801	10801	1 0.70711	100802					EM510411
817-	EM509721	10803	10803	1 0.70711						EM510421
818-	MPC	5098	1	-1.	100800	1	1 0.00000			EM510511
819-	EM509811	10801	10801	1 0.92388	100802					EM510521
820-	EM509821	10803	10803	1 0.38268						EM510611
821-	MPC	5099	1	-1.	100800	1	1 0.00000			EM510621
822-	EM509911	10801	10801	1 1.00000	100802					EM510711
823-	EM509921	10803	10803	1 1.00000						EM510721
824-	MPC	5104	1	-1.	100900	1	1 0.00000			EM510811
825-	EM510411	10901	10901	1 1.00000	100902					EM510821
826-	EM510421	10903	10903	1 1.00000						EM510911
827-	MPC	5105	1	-1.	100900	1	1 0.00000			EM510921
828-	EM510511	10901	10901	1 0.92388	100902					EM510411
829-	EM510521	10903	10903	1 0.38268						EM510421
830-	MPC	5106	1	-1.	100900	1	1 0.00000			EM510511
831-	EM510611	10901	10901	1 0.70711	100902					EM510521
832-	EM510621	10903	10903	1 0.70711						EM510611
833-	MPC	5107	1	-1.	100900	1	1 0.00000			EM510621
834-	EM510711	10901	10901	1 0.38268	100902					EM510711
835-	EM510721	10903	10903	1 0.92388						EM510721
836-	MPC	5108	1	-1.	100900	1	1 0.00000			EM510811
837-	EM510811	10901	10901	1 0.00000	100902					EM510821
838-	EM510821	10903	10903	1 0.00000						EM510911
839-	MPC	5109	1	-1.	100900	1	1 0.00000			EM510921
840-	EM510911	10901	10901	1 0.38268	100902					EM511011
841-	EM510921	10903	10903	1 0.92388						EM511021
842-	MPC	5110	1	-1.	100900	1	1 0.00000			EM511111
843-	EM511011	10901	10901	1 0.70711	100902					EM511121
844-	EM511021	10903	10903	1 0.70711						EM511211
845-	MPC	5111	1	-1.	100900	1	1 0.00000			EM511221
846-	EM511111	10901	10901	1 0.92388	100902					EM511211
847-	EM511121	10903	10903	1 0.38268						EM511221
848-	MPC	5112	1	-1.	100900	1	1 0.00000			EM511211
849-	EM511211	10901	10901	1 1.00000	100902					EM511221
850-	EM511221	10903	10903	1 1.00000						

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
851-	MPC	5117	1	-1.	101000	1	1.00000	1	1.00000	EM511711
852-	EM511711	101001	1	1.00000	101002	1	1.00000	1	1.00000	EM511721
853-	MPC	5118	1	-1.	101000	1	1.00000	1	1.00000	EM511811
854-	EM511811	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM511821
855-	MPC	5119	1	-1.	101000	1	1.00000	1	1.00000	EM511911
856-	EM511911	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM511921
857-	MPC	5120	1	-1.	101000	1	1.00000	1	1.00000	EM512011
858-	EM512011	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512021
859-	MPC	5121	1	-1.	101000	1	1.00000	1	1.00000	EM512111
860-	EM512111	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512121
861-	MPC	5122	1	-1.	101000	1	1.00000	1	1.00000	EM512211
862-	EM512211	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512221
863-	MPC	5123	1	-1.	101000	1	1.00000	1	1.00000	EM512311
864-	EM512311	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512321
865-	MPC	5124	1	-1.	101000	1	1.00000	1	1.00000	EM512411
866-	EM512411	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512421
867-	MPC	5125	1	-1.	101000	1	1.00000	1	1.00000	EM512511
868-	EM512511	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512521
869-	MPC	5126	1	-1.	101000	1	1.00000	1	1.00000	EM512611
870-	EM512611	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM512621
871-	MPC	5130	1	-1.	101000	1	1.00000	1	1.00000	EM513011
872-	EM513011	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513021
873-	MPC	5131	1	-1.	101000	1	1.00000	1	1.00000	EM513111
874-	EM513111	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513121
875-	MPC	5132	1	-1.	101000	1	1.00000	1	1.00000	EM513211
876-	EM513211	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513221
877-	MPC	5133	1	-1.	101000	1	1.00000	1	1.00000	EM513311
878-	EM513311	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513321
879-	MPC	5134	1	-1.	101000	1	1.00000	1	1.00000	EM513411
880-	EM513411	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513421
881-	MPC	5135	1	-1.	101000	1	1.00000	1	1.00000	EM513511
882-	EM513511	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513521
883-	MPC	5136	1	-1.	101000	1	1.00000	1	1.00000	EM513611
884-	EM513611	101001	1	0.92388	101002	1	0.70711	1	0.70711	EM513621

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
901-	EM513621	101103	101100	101100	101100	101100	101100	101100	101100	EM513711
902-	MPC	5137	101101	101101	101101	101101	101101	101101	101101	EM513721
903-	EM513711	101101	101101	101101	101101	101101	101101	101101	101101	EM513811
904-	EM513721	101103	101103	101103	101103	101103	101103	101103	101103	EM513821
905-	MPC	5138	101101	101101	101101	101101	101101	101101	101101	EM514311
906-	EM513811	101103	101103	101103	101103	101103	101103	101103	101103	EM514321
907-	EM513821	101201	101201	101201	101201	101201	101201	101201	101201	EM514411
908-	MPC	5143	101201	101201	101201	101201	101201	101201	101201	EM514421
909-	EM514311	101203	101203	101203	101203	101203	101203	101203	101203	EM514511
910-	EM514321	101201	101201	101201	101201	101201	101201	101201	101201	EM514521
911-	MPC	5144	101201	101201	101201	101201	101201	101201	101201	EM514611
912-	EM514411	101203	101203	101203	101203	101203	101203	101203	101203	EM514621
913-	EM514421	101201	101201	101201	101201	101201	101201	101201	101201	EM514711
914-	MPC	5145	101201	101201	101201	101201	101201	101201	101201	EM514721
915-	EM514511	101203	101203	101203	101203	101203	101203	101203	101203	EM514811
916-	EM514521	101201	101201	101201	101201	101201	101201	101201	101201	EM514821
917-	MPC	5146	101201	101201	101201	101201	101201	101201	101201	EM514911
918-	EM514611	101203	101203	101203	101203	101203	101203	101203	101203	EM514921
919-	EM514621	101201	101201	101201	101201	101201	101201	101201	101201	EM515011
920-	MPC	5147	101201	101201	101201	101201	101201	101201	101201	EM515021
921-	EM514711	101203	101203	101203	101203	101203	101203	101203	101203	EM515111
922-	EM514721	101201	101201	101201	101201	101201	101201	101201	101201	EM515121
923-	MPC	5148	101201	101201	101201	101201	101201	101201	101201	EM515611
924-	EM514811	101203	101203	101203	101203	101203	101203	101203	101203	EM515621
925-	EM514821	101201	101201	101201	101201	101201	101201	101201	101201	EM515711
926-	MPC	5149	101201	101201	101201	101201	101201	101201	101201	EM515721
927-	EM514911	101203	101203	101203	101203	101203	101203	101203	101203	EM515811
928-	EM514921	101201	101201	101201	101201	101201	101201	101201	101201	EM515821
929-	MPC	5150	101201	101201	101201	101201	101201	101201	101201	EM515911
930-	EM515011	101203	101203	101203	101203	101203	101203	101203	101203	EM515921
931-	EM515021	101201	101201	101201	101201	101201	101201	101201	101201	EM516011
932-	MPC	5151	101201	101201	101201	101201	101201	101201	101201	EM516021
933-	EM515111	101301	101301	101301	101301	101301	101301	101301	101301	EM516111
934-	EM515121	101303	101303	101303	101303	101303	101303	101303	101303	EM51621
935-	MPC	5156	101301	101301	101301	101301	101301	101301	101301	EM51622
936-	EM515611	101303	101303	101303	101303	101303	101303	101303	101303	EM516311
937-	EM515621	101201	101201	101201	101201	101201	101201	101201	101201	EM516321
938-	MPC	5157	101201	101201	101201	101201	101201	101201	101201	EM516411
939-	EM515711	101301	101301	101301	101301	101301	101301	101301	101301	EM516421
940-	EM515721	101303	101303	101303	101303	101303	101303	101303	101303	EM516511
941-	MPC	5158	101301	101301	101301	101301	101301	101301	101301	EM516521
942-	EM515811	101303	101303	101303	101303	101303	101303	101303	101303	EM516611
943-	EM515821	101201	101201	101201	101201	101201	101201	101201	101201	EM516621
944-	MPC	5159	101201	101201	101201	101201	101201	101201	101201	EM516711
945-	EM515911	101301	101301	101301	101301	101301	101301	101301	101301	EM516811
946-	EM515921	101303	101303	101303	101303	101303	101303	101303	101303	EM516821
947-	MPC	5160	101301	101301	101301	101301	101301	101301	101301	EM516911
948-	EM516011	101303	101303	101303	101303	101303	101303	101303	101303	EM516921
949-	EM516021	101201	101201	101201	101201	101201	101201	101201	101201	EM517011
950-	MPC	5161	101201	101201	101201	101201	101201	101201	101201	EM517021

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
951-	CM516111		101301	1-0.38268	101302			1-0.70711		CM516121
952-	CM516121		101303	1-0.92388						
953-	MPC	5162	1		101300	1		1.00000		CM516211
954-	CM516211		101301	1-0.70711	101302			1-0.00000		CM516221
955-	CM516221		101303	1-0.70711						
956-	MPC	5163	1		101300	1		1.00000		CM516311
957-	CM516311		101301	1-0.92388	101302			1-0.70711		CM516321
958-	CM516321		101303	1-0.38268						
959-	MPC	5164	1		101300	1		1.00000		CM516411
960-	CM516411		101301	1-1.00000	101302			1-1.00000		CM516421
961-	CM516421		101303	1-1.00000						
962-	MPC	5169	1		101400	1		1.00000		CM516911
963-	CM516911		101401	1-1.00000	101402			1-1.00000		CM516921
964-	CM516921		101403	1-1.00000						
965-	MPC	5170	1		101400	1		1.00000		CM517011
966-	CM517011		101401	1-0.92388	101402			1-0.70711		CM517021
967-	CM517021		101403	1-0.38268						
968-	MPC	5171	1		101400	1		1.00000		CM517111
969-	CM517111		101401	1-0.70711	101402			1-0.00000		CM517121
970-	CM517121		101403	1-0.70711						
971-	MPC	5172	1		101400	1		1.00000		CM517211
972-	CM517211		101401	1-0.38268	101402			1-0.70711		CM517221
973-	CM517221		101403	1-0.92388						
974-	MPC	5173	1		101400	1		1.00000		CM517311
975-	CM517311		101401	1-0.00000	101402			1-1.00000		CM517321
976-	CM517321		101403	1-0.00000						
977-	MPC	5174	1		101400	1		1.00000		CM517411
978-	CM517411		101401	1-0.38268	101402			1-0.70711		CM517421
979-	CM517421		101403	1-0.92388						
980-	MPC	5175	1		101400	1		1.00000		CM517511
981-	CM517511		101401	1-0.70711	101402			1-0.00000		CM517521
982-	CM517521		101403	1-0.70711						
983-	MPC	5176	1		101400	1		1.00000		CM517611
984-	CM517611		101401	1-0.92388	101402			1-0.70711		CM517621
985-	CM517621		101403	1-0.38268						
986-	MPC	5177	1		101400	1		1.00000		CM517711
987-	CM517711		101401	1-1.00000	101402			1-1.00000		CM517721
988-	CM517721		101403	1-1.00000						
989-	MPC	5182	1		101500	1		1.00000		CM518211
990-	CM518211		101501	1-1.00000	101502			1-1.00000		CM518221
991-	CM518221		101503	1-1.00000						
992-	MPC	5183	1		101500	1		1.00000		CM518311
993-	CM518311		101501	1-0.92388	101502			1-0.70711		CM518321
994-	CM518321		101503	1-0.38268						
995-	MPC	5184	1		101500	1		1.00000		CM518411
996-	CM518411		101501	1-0.70711	101502			1-0.00000		CM518421
997-	CM518421		101503	1-0.70711						
998-	MPC	5185	1		101500	1		1.00000		CM518511
999-	CM518511		101501	1-0.38268	101502			1-0.70711		CM518521
1000-	CM518521		101503	1-0.92388						

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
1001-	MPC	5186	1	-1.	101500	1	1.00000	1.00000		EMS18611
1002-	EMS18621	101501	1	1.0.00000	101502	1	1.00000			EMS18621
1003-	MPC	5187	1	-1.	101500	1	1.00000			EMS18711
1004-	EMS18721	101501	1	1.0.38258	101502	1	1.00000			EMS18721
1005-	MPC	5188	1	-1.	101500	1	1.00000			EMS18811
1006-	EMS18821	101501	1	1.0.70711	101502	1	1.00000			EMS18821
1007-	MPC	5189	1	-1.	101500	1	1.00000			EMS18911
1008-	EMS18921	101501	1	1.0.92388	101502	1	1.00000			EMS18921
1009-	MPC	5190	1	-1.	101500	1	1.00000			EMS19011
1010-	EMS19021	101501	1	1.0.00000	101502	1	1.00000			EMS19021
1011-	MPC	5195	1	-1.	101600	1	1.00000			EMS19511
1012-	EMS19521	101601	1	1.1.00000	101602	1	1.00000			EMS19521
1013-	MPC	5196	1	-1.	101600	1	1.00000			EMS19611
1014-	EMS19621	101601	1	1.0.92388	101602	1	1.00000			EMS19621
1015-	MPC	5197	1	-1.	101600	1	1.00000			EMS19711
1016-	EMS19721	101601	1	1.0.70711	101602	1	1.00000			EMS19721
1017-	MPC	5198	1	-1.	101600	1	1.00000			EMS19811
1018-	EMS19821	101601	1	1.0.38258	101602	1	1.00000			EMS19821
1019-	MPC	5199	1	-1.	101600	1	1.00000			EMS19911
1020-	EMS19921	101601	1	1.0.00000	101602	1	1.00000			EMS19921
1021-	MPC	5200	1	-1.	101600	1	1.00000			EMS20011
1022-	EMS20021	101601	1	1.0.38258	101602	1	1.00000			EMS20021
1023-	MPC	5201	1	-1.	101600	1	1.00000			EMS20111
1024-	EMS20121	101601	1	1.0.70711	101602	1	1.00000			EMS20121
1025-	MPC	5202	1	-1.	101600	1	1.00000			EMS20211
1026-	EMS20221	101601	1	1.0.92388	101602	1	1.00000			EMS20221
1027-	MPC	5203	1	-1.	101600	1	1.00000			EMS20311
1028-	EMS20321	101601	1	1.0.00000	101602	1	1.00000			EMS20321
1029-	MPC	8070	1	-1.	110400	1	1.00000			EMS207011
1030-	EMS207021	110401	1	1.0.92388	110402	1	1.00000			EMS207021
1031-	MPC	8071	1	-1.	110400	1	1.00000			EMS207111
1032-	EMS207121	110401	1	1.0.38258	110402	1	1.00000			EMS207121
1033-	MPC	8072	1	-1.	110400	1	1.00000			EMS207211
1034-	EMS207221	110401	1	1.0.70711	110402	1	1.00000			EMS207221
1035-	MPC	8073	1	-1.	110400	1	1.00000			EMS208111
1036-	EMS208121	110401	1	1.0.92388	110402	1	1.00000			EMS208121
1037-	MPC	8074	1	-1.	110400	1	1.00000			EMS209111
1038-	EMS209121	110401	1	1.0.38258	110402	1	1.00000			EMS209121
1039-	MPC	8075	1	-1.	110400	1	1.00000			EMS210111
1040-	EMS210121	110401	1	1.0.70711	110402	1	1.00000			EMS210121
1041-	MPC	8076	1	-1.	110400	1	1.00000			EMS211111
1042-	EMS211121	110401	1	1.0.92388	110402	1	1.00000			EMS211121
1043-	MPC	8077	1	-1.	110400	1	1.00000			EMS212111
1044-	EMS212121	110401	1	1.0.38258	110402	1	1.00000			EMS212121
1045-	MPC	8078	1	-1.	110400	1	1.00000			EMS213111
1046-	EMS213121	110401	1	1.0.70711	110402	1	1.00000			EMS213121
1047-	MPC	8079	1	-1.	110400	1	1.00000			EMS214111
1048-	EMS214121	110401	1	1.0.92388	110402	1	1.00000			EMS214121
1049-	MPC	8080	1	-1.	110400	1	1.00000			EMS215111
1050-	EMS215121	110401	1	1.0.38258	110402	1	1.00000			EMS215121

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1051-	EM807221	110403	110403	1-0.70711						
1052-	MPC	8073	110400	1	110400	1	1.00000			EM807311
1053-	EM807311	110401	110401	1	0.38268	110402	1	1-0.70711		EM807321
1054-	EM807321	110403	110403	1	0.92338					
1055-	MPC	8074	110400	1	110400	1	1.00000			EM807411
1056-	EM807411	110401	110401	1	0.19732	110402	1	1-0.92213		EM807421
1057-	EM807421	110403	110403	1	0.56122					
1058-	MPC	8075	110400	1	110400	1	1.00000			EM807511
1059-	EM807511	110401	110401	1	0.00000	110402	1	1-1.00000		EM807521
1060-	EM807521	110403	110403	1	0.00000					
1061-	MPC	8076	110400	1	110400	1	1.00000			EM807611
1062-	EM807611	110401	110401	1	0.38268	110402	1	1-0.70711		EM807621
1063-	EM807621	110403	110403	1	0.92338					
1064-	MPC	8077	110400	1	110400	1	1.00000			EM807711
1065-	EM807711	110401	110401	1	0.70711	110402	1	1-0.00000		EM807721
1066-	EM807721	110403	110403	1	0.70711					
1067-	MPC	8078	110400	1	110400	1	1.00000			EM807811
1068-	EM807811	110401	110401	1	0.92338	110402	1	1 0.70711		EM807821
1069-	EM807821	110403	110403	1	0.38268					
1070-	MPC	8079	110400	1	110400	1	1.00000			EM807911
1071-	EM807911	110401	110401	1	1.00000	110402	1	1.00000		EM807921
1072-	EM807921	110403	110403	1	1.00000					
1073-	MPC	8110	110100	1	110100	1	1.00000			EM811011
1074-	EM811011	110101	110101	1	1.00000	110102	1	1.00000		EM811021
1075-	EM811021	110103	110103	1	1.00000					
1076-	MPC	8111	110100	1	110100	1	1.00000			EM811111
1077-	EM811111	110101	110101	1	0.92338	110102	1	1 0.70711		EM811121
1078-	EM811121	110103	110103	1	0.38268					
1079-	MPC	8112	110100	1	110100	1	1.00000			EM811211
1080-	EM811211	110101	110101	1	0.70711	110102	1	1.00000		EM811221
1081-	EM811221	110103	110103	1	0.70711					
1082-	MPC	8113	110100	1	110100	1	1.00000			EM811311
1083-	EM811311	110101	110101	1	0.38268	110102	1	1-0.70711		EM811321
1084-	EM811321	110103	110103	1	0.92338					
1085-	MPC	8114	110100	1	110100	1	1.00000			EM811411
1086-	EM811411	110101	110101	1	0.19732	110102	1	1-0.92213		EM811421
1087-	EM811421	110103	110103	1	0.56122					
1088-	MPC	8115	110100	1	110100	1	1.00000			EM811511
1089-	EM811511	110101	110101	1	0.00000	110102	1	1.00000		EM811521
1090-	EM811521	110103	110103	1	0.00000					
1091-	MPC	8116	110100	1	110100	1	1.00000			EM811611
1092-	EM811611	110101	110101	1	0.38268	110102	1	1-0.70711		EM811621
1093-	EM811621	110103	110103	1	0.92338					
1094-	MPC	8117	110100	1	110100	1	1.00000			EM811711
1095-	EM811711	110101	110101	1	0.70711	110102	1	1-0.00000		EM811721
1096-	EM811721	110103	110103	1	0.70711					
1097-	MPC	8118	110100	1	110100	1	1.00000			EM811811
1098-	EM811811	110101	110101	1	0.92338	110102	1	1.00000		EM811821
1099-	EM811821	110103	110103	1	0.38268					
1100-	MPC	8119	110100	1	110100	1	1.00000			EM811911

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1101-	EM811911	110101	1-1.00000	110102	1-1.00000	110102	1-1.00000	1-1.00000	1-1.00000	EM811921
1102-	EM811921	110103	1-1.00000							
1103-	MPC	8130	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813011
1104-	EM813011	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813021
1105-	EM813021	110203	1	1-1.00000						
1106-	MPC	8131	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813111
1107-	EM813111	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813121
1108-	EM813121	110203	1	1-1.00000						
1109-	MPC	8132	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813211
1110-	EM813211	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813221
1111-	EM813221	110203	1	1-1.00000						
1112-	MPC	8133	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813311
1113-	EM813311	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813321
1114-	EM813321	110203	1	1-1.00000						
1115-	MPC	8134	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813411
1116-	EM813411	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813421
1117-	EM813421	110203	1	1-1.00000						
1118-	MPC	8135	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813511
1119-	EM813511	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813521
1120-	EM813521	110203	1	1-1.00000						
1121-	MPC	8136	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813611
1122-	EM813611	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813621
1123-	EM813621	110203	1	1-1.00000						
1124-	MPC	8137	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813711
1125-	EM813711	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813721
1126-	EM813721	110203	1	1-1.00000						
1127-	MPC	8138	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813811
1128-	EM813811	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813821
1129-	EM813821	110203	1	1-1.00000						
1130-	MPC	8139	1	110201	1-1.00000	110202	1	1-1.00000	1-1.00000	EM813911
1131-	EM813911	110201	1	1-1.00000	110202	1	1-1.00000	1-1.00000	1-1.00000	EM813921
1132-	EM813921	110203	1	1-1.00000						
1133-	MPC	8150	1	110301	1-1.00000	110302	1	1-1.00000	1-1.00000	EM815011
1134-	EM815011	110301	1	1-1.00000	110302	1	1-1.00000	1-1.00000	1-1.00000	EM815021
1135-	EM815021	110303	1	1-1.00000						
1136-	MPC	8151	1	110301	1-1.00000	110302	1	1-1.00000	1-1.00000	EM815111
1137-	EM815111	110301	1	1-1.00000	110302	1	1-1.00000	1-1.00000	1-1.00000	EM815121
1138-	EM815121	110303	1	1-1.00000						
1139-	MPC	8152	1	110301	1-1.00000	110302	1	1-1.00000	1-1.00000	EM815211
1140-	EM815211	110301	1	1-1.00000	110302	1	1-1.00000	1-1.00000	1-1.00000	EM815221
1141-	EM815221	110303	1	1-1.00000						
1142-	MPC	8153	1	110301	1-1.00000	110302	1	1-1.00000	1-1.00000	EM815311
1143-	EM815311	110301	1	1-1.00000	110302	1	1-1.00000	1-1.00000	1-1.00000	EM815321
1144-	EM815321	110303	1	1-1.00000						
1145-	MPC	8154	1	110301	1-1.00000	110302	1	1-1.00000	1-1.00000	EM815411
1146-	EM815411	110301	1	1-1.00000	110302	1	1-1.00000	1-1.00000	1-1.00000	EM815421
1147-	EM815421	110303	1	1-1.00000						
1148-	MPC	8155	1	110301	1-1.00000	110302	1	1-1.00000	1-1.00000	EM815511
1149-	EM815511	110301	1	1-1.00000	110302	1	1-1.00000	1-1.00000	1-1.00000	EM815521
1150-	EM815521	110303	1	1-1.00000						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1151-	MPC	8156	1	110300	1	110300	1	1.00000	EM815611	EM815611
1152-	EM815611	110301	1	110300	1	110302	1	1.00000	EM815621	EM815621
1153-	EM815621	110303	1	110303	1	110303	1	1.00000	EM815711	EM815711
1154-	MPC	8157	1	110300	1	110300	1	1.00000	EM815721	EM815721
1155-	EM815711	110301	1	110300	1	110302	1	1.00000	EM815811	EM815811
1156-	EM815721	110303	1	110303	1	110303	1	1.00000	EM815821	EM815821
1157-	MPC	8158	1	110300	1	110300	1	1.00000	EM815911	EM815911
1158-	EM815811	110301	1	110300	1	110302	1	1.00000	EM815921	EM815921
1159-	EM815821	110303	1	110303	1	110303	1	1.00000	EM817011	EM817011
1160-	MPC	8159	1	110300	1	110300	1	1.00000	EM817021	EM817021
1161-	EM815911	110301	1	110300	1	110302	1	1.00000	EM817111	EM817111
1162-	EM815921	110303	1	110303	1	110303	1	1.00000	EM817121	EM817121
1163-	MPC	8170	1	110500	1	110500	1	1.00000	EM817211	EM817211
1164-	EM817011	110501	1	110500	1	110502	1	1.00000	EM817311	EM817311
1165-	EM817021	110503	1	110503	1	110503	1	1.00000	EM817321	EM817321
1166-	MPC	8171	1	110500	1	110500	1	1.00000	EM817411	EM817411
1167-	EM817111	110501	1	110500	1	110502	1	1.00000	EM817421	EM817421
1168-	EM817121	110503	1	110503	1	110503	1	1.00000	EM817511	EM817511
1169-	MPC	8172	1	110500	1	110500	1	1.00000	EM817521	EM817521
1170-	EM817211	110501	1	110500	1	110502	1	1.00000	EM817611	EM817611
1171-	EM817221	110503	1	110503	1	110503	1	1.00000	EM817621	EM817621
1172-	MPC	8173	1	110500	1	110500	1	1.00000	EM817711	EM817711
1173-	EM817311	110501	1	110500	1	110502	1	1.00000	EM817811	EM817811
1174-	EM817321	110503	1	110503	1	110503	1	1.00000	EM817821	EM817821
1175-	MPC	8174	1	110500	1	110500	1	1.00000	EM819011	EM819011
1176-	EM817411	110501	1	110500	1	110502	1	1.00000	EM819021	EM819021
1177-	EM817421	110503	1	110503	1	110503	1	1.00000	EM819111	EM819111
1178-	MPC	8175	1	110500	1	110500	1	1.00000	EM819121	EM819121
1179-	EM817511	110501	1	110500	1	110502	1	1.00000	EM819211	EM819211
1180-	EM817521	110503	1	110503	1	110503	1	1.00000	EM819221	EM819221
1181-	MPC	8176	1	110500	1	110500	1	1.00000	EM819311	EM819311
1182-	EM817611	110501	1	110500	1	110502	1	1.00000	EM819321	EM819321
1183-	EM817621	110503	1	110503	1	110503	1	1.00000		
1184-	MPC	8177	1	110500	1	110500	1	1.00000		
1185-	EM817711	110501	1	110500	1	110502	1	1.00000		
1186-	EM817721	110503	1	110503	1	110503	1	1.00000		
1187-	MPC	8178	1	110500	1	110500	1	1.00000		
1188-	EM817811	110501	1	110500	1	110502	1	1.00000		
1189-	EM817821	110503	1	110503	1	110503	1	1.00000		
1190-	MPC	8179	1	110500	1	110500	1	1.00000		
1191-	EM819011	110601	1	110600	1	110602	1	1.00000		
1192-	EM819021	110603	1	110603	1	110603	1	1.00000		
1193-	MPC	8191	1	110600	1	110600	1	1.00000		
1194-	EM819111	110601	1	110600	1	110602	1	1.00000		
1195-	EM819121	110603	1	110603	1	110603	1	1.00000		
1196-	MPC	8192	1	110600	1	110600	1	1.00000		
1197-	EM819211	110601	1	110600	1	110602	1	1.00000		
1198-	EM819221	110603	1	110603	1	110603	1	1.00000		
1199-	MPC	8193	1	110600	1	110600	1	1.00000		
1200-	EM819311	110601	1	110600	1	110602	1	1.00000		

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1201-	EM819321	110603	110603	110600	110600	110600	110600	110600	110600	EM819411
1202-	MPC	8194	8194	-1	-1	-1	-1	-1	-1	EM819421
1203-	EM819411	110601	110601	110600	110600	110602	110602	110602	110602	EM819511
1204-	EM819421	110603	110603	110600	110600	110600	110600	110600	110600	EM819521
1205-	MPC	8195	8195	-1	-1	-1	-1	-1	-1	EM819611
1206-	EM819511	110601	110601	110600	110600	110602	110602	110602	110602	EM819621
1207-	EM819521	110603	110603	110600	110600	110600	110600	110600	110600	EM819711
1208-	MPC	8196	8196	-1	-1	-1	-1	-1	-1	EM819721
1209-	EM819611	110601	110601	110600	110600	110602	110602	110602	110602	EM819811
1210-	EM819621	110603	110603	110600	110600	110600	110600	110600	110600	EM819821
1211-	MPC	8197	8197	-1	-1	-1	-1	-1	-1	EM821011
1212-	EM819711	110601	110601	110600	110600	110602	110602	110602	110602	EM821021
1213-	EM819721	110603	110603	110600	110600	110600	110600	110600	110600	EM821111
1214-	MPC	8198	8198	-1	-1	-1	-1	-1	-1	EM821121
1215-	EM819811	110601	110601	110600	110600	110602	110602	110602	110602	EM821211
1216-	EM819821	110603	110603	110600	110600	110600	110600	110600	110600	EM821221
1217-	MPC	8210	8210	-1	-1	-1	-1	-1	-1	EM821311
1218-	EM821011	110701	110701	110700	110700	110702	110702	110702	110702	EM821321
1219-	EM821021	110703	110703	110700	110700	110700	110700	110700	110700	EM821411
1220-	MPC	8211	8211	-1	-1	-1	-1	-1	-1	EM821421
1221-	EM821111	110701	110701	110700	110700	110702	110702	110702	110702	EM821511
1222-	EM821121	110703	110703	110700	110700	110700	110700	110700	110700	EM821521
1223-	MPC	8212	8212	-1	-1	-1	-1	-1	-1	EM821611
1224-	EM821211	110701	110701	110700	110700	110702	110702	110702	110702	EM821621
1225-	EM821221	110703	110703	110700	110700	110700	110700	110700	110700	EM821711
1226-	MPC	8213	8213	-1	-1	-1	-1	-1	-1	EM821721
1227-	EM821311	110701	110701	110700	110700	110702	110702	110702	110702	EM821811
1228-	EM821321	110703	110703	110700	110700	110700	110700	110700	110700	EM821821
1229-	MPC	8214	8214	-1	-1	-1	-1	-1	-1	EM823011
1230-	EM821411	110701	110701	110700	110700	110702	110702	110702	110702	EM823021
1231-	EM821421	110703	110703	110700	110700	110700	110700	110700	110700	EM823111
1232-	MPC	8215	8215	-1	-1	-1	-1	-1	-1	EM823121
1233-	EM821511	110701	110701	110700	110700	110702	110702	110702	110702	EM823211
1234-	EM821521	110703	110703	110700	110700	110700	110700	110700	110700	EM823221
1235-	MPC	8216	8216	-1	-1	-1	-1	-1	-1	EM8233011
1236-	EM821611	110701	110701	110700	110700	110702	110702	110702	110702	EM8233021
1237-	EM821621	110703	110703	110700	110700	110700	110700	110700	110700	EM823111
1238-	MPC	8217	8217	-1	-1	-1	-1	-1	-1	EM823121
1239-	EM821711	110701	110701	110700	110700	110702	110702	110702	110702	EM823211
1240-	EM821721	110703	110703	110700	110700	110700	110700	110700	110700	EM823221
1241-	MPC	8218	8218	-1	-1	-1	-1	-1	-1	EM823011
1242-	EM821811	110701	110701	110700	110700	110702	110702	110702	110702	EM823021
1243-	EM821821	110703	110703	110700	110700	110700	110700	110700	110700	EM823111
1244-	MPC	8230	8230	-1	-1	-1	-1	-1	-1	EM823121
1245-	EM823011	110801	110801	110800	110800	110802	110802	110802	110802	EM823211
1246-	EM823021	110803	110803	110800	110800	110800	110800	110800	110800	EM823221
1247-	MPC	8231	8231	-1	-1	-1	-1	-1	-1	EM8233011
1248-	EM823111	110801	110801	110800	110800	110802	110802	110802	110802	EM8233021
1249-	EM823121	110803	110803	110800	110800	110800	110800	110800	110800	EM823111
1250-	MPC	8232	8232	-1	-1	-1	-1	-1	-1	EM823121
										EM823211

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1251-	CM823211	110801	110801	1 0.70711	110802	1 0.00000	1 0.00000	1 0.00000	1 0.00000	CM823221
1252-	CM823221	110903	110903	1 -0.70711	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823311
1253-	MPC	8233	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823321
1254-	CM823311	110801	110801	1 3.38268	110802	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823411
1255-	CM823321	110803	110803	1 -0.92338	110802	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM823421
1256-	MPC	8234	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823511
1257-	CM823411	110801	110801	1 3.00000	110802	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823521
1258-	CM823421	110803	110803	1 -0.00000	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823611
1259-	MPC	8235	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823621
1260-	CM823511	110801	110801	1 -0.38268	110802	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823711
1261-	CM823521	110803	110803	1 0.92338	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823721
1262-	MPC	8236	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823811
1263-	CM823611	110801	110801	1 -0.70711	110802	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM823821
1264-	CM823621	110803	110803	1 0.70711	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825011
1265-	MPC	8237	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825021
1266-	CM823711	110801	110801	1 -0.92338	110802	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825111
1267-	CM823721	110803	110803	1 -0.38268	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825121
1268-	MPC	8238	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825211
1269-	CM823811	110801	110801	1 -1.00000	110802	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825221
1270-	CM823821	110803	110803	1 -1.00000	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825311
1271-	MPC	8250	1	-1.	110800	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825321
1272-	CM825011	110901	110901	1 1.00000	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825411
1273-	CM825021	110903	110903	1 1.00000	110900	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM825421
1274-	MPC	8251	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825511
1275-	CM825111	110901	110901	1 1.92338	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825521
1276-	CM825121	110903	110903	1 3.38268	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825611
1277-	MPC	8252	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825621
1278-	CM825211	110901	110901	1 3.70711	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825711
1279-	CM825221	110903	110903	1 -0.70711	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825721
1280-	MPC	8253	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825811
1281-	CM825311	110901	110901	1 3.38268	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825821
1282-	CM825321	110903	110903	1 -0.92338	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825911
1283-	MPC	8254	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825921
1284-	CM825411	110901	110901	1 3.00000	110902	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM825511
1285-	CM825421	110903	110903	1 -0.00000	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825521
1286-	MPC	8255	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825611
1287-	CM825511	110901	110901	1 -0.38268	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825621
1288-	CM825521	110903	110903	1 3.92338	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825711
1289-	MPC	8256	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825721
1290-	CM825611	110901	110901	1 -0.70711	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825811
1291-	CM825621	110903	110903	1 3.70711	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825821
1292-	MPC	8257	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825911
1293-	CM825711	110901	110901	1 -0.92338	110902	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM825921
1294-	CM825721	110903	110903	1 -0.38268	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM827011
1295-	MPC	8258	1	-1.	110900	1 1.00000	1 -0.70711	1 0.00000	1 0.00000	CM827021
1296-	CM825811	110901	110901	1 -1.00000	110902	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM827011
1297-	CM825821	110903	110903	1 -1.00000	110900	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM827021
1298-	MPC	8270	1	-1.	111000	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM827011
1299-	CM827011	111001	111001	1 1.00000	111002	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM827021
1300-	CM827021	111003	111003	1 1.00000	111000	1 1.00000	1 -1.00000	1 -1.00000	1 -1.00000	CM827021

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
C333										
1301-	MPC	8271	11100	1	-1.	111000	1	1.00000	1	EM827111
1302-	EM827111		111001		1 0.92388	111002		1 0.7C711		EM827121
1303-	EM827121		111003		1 0.38268					
1304-	MPC	8272	11100	1	-1.	111000	1	1.00000	1	EM827211
1305-	EM827211		111001		1 0.70711	111002		1 0.00000		EM827221
1306-	EM827221		111003		1 -0.70711					
1307-	MPC	8273	11100	1	-1.	111000	1	1.00000	1	EM827311
1308-	EM827311		111001		1 0.38268	111002		1 -0.7C711		EM827321
1309-	EM827321		111003		1 -0.92388					
1310-	MPC	8274	11100	1	-1.	111000	1	1.00000	1	EM827411
1311-	EM827411		111001		1 0.00000	111002		1 -1.00000		EM827421
1312-	EM827421		111003		1 -0.00000					
1313-	MPC	8275	11100	1	-1.	111000	1	1.00000	1	EM827511
1314-	EM827511		111001		1 -0.38268	111002		1 -0.7C711		EM827521
1315-	EM827521		111003		1 0.92388					
1316-	MPC	8276	11100	1	-1.	111000	1	1.00000	1	EM827611
1317-	EM827611		111001		1 -0.70711	111002		1 -0.00000		EM827621
1318-	EM827621		111003		1 0.70711					
1319-	MPC	8277	11100	1	-1.	111000	1	1.00000	1	EM827711
1320-	EM827711		111001		1 -0.92388	111002		1 0.7C711		EM827721
1321-	EM827721		111003		1 -0.38268					
1322-	MPC	8278	11100	1	-1.	111000	1	1.00000	1	EM827811
1323-	EM827811		111001		1 -1.00000	111002		1 1.00000		EM827821
1324-	EM827821		111003		1 -1.00000					
1325-	MPC	8290	11100	1	-1.	111000	1	1.00000	1	EM829011
1326-	EM829011		111001		1 1.00000	111002		1 1.00000		EM829021
1327-	EM829021		111003		1 1.00000					
1328-	MPC	8291	11100	1	-1.	111000	1	1.00000	1	EM829111
1329-	EM829111		111001		1 0.92388	111002		1 0.7C711		EM829121
1330-	EM829121		111003		1 0.38268					
1331-	MPC	8292	11100	1	-1.	111000	1	1.00000	1	EM829211
1332-	EM829211		111001		1 0.70711	111002		1 0.00000		EM829221
1333-	EM829221		111003		1 -0.70711					
1334-	MPC	8293	11100	1	-1.	111000	1	1.00000	1	EM829311
1335-	EM829311		111001		1 0.38268	111002		1 -0.7C711		EM829321
1336-	EM829321		111003		1 -0.92388					
1337-	MPC	8294	11100	1	-1.	111000	1	1.00000	1	EM829411
1338-	EM829411		111001		1 0.00000	111002		1 -1.00000		EM829421
1339-	EM829421		111003		1 -0.00000					
1340-	MPC	8295	11100	1	-1.	111000	1	1.00000	1	EM829511
1341-	EM829511		111001		1 -0.38268	111002		1 -0.7C711		EM829521
1342-	EM829521		111003		1 0.92388					
1343-	MPC	8296	11100	1	-1.	111000	1	1.00000	1	EM829611
1344-	EM829611		111001		1 -0.70711	111002		1 -0.00000		EM829621
1345-	EM829621		111003		1 0.70711					
1346-	MPC	8297	11100	1	-1.	111000	1	1.00000	1	EM829711
1347-	EM829711		111001		1 -0.92388	111002		1 0.70711		EM829721
1348-	EM829721		111003		1 -0.38268					
1349-	MPC	8298	11100	1	-1.	111000	1	1.00000	1	EM829811
1350-	EM829811		111001		1 -1.00000	111002		1 1.00000		EM829821

S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
1351- EM825821	111103	1-1.00000								EM831011
1352- MPC	8310	1-1.00000	111200	1	1.00000					EM831021
1353- EM831011	111201	1-1.00000	111202	1	1.00000					
1354- EM831021	111203	1-1.00000								
1355- MPC	8311	1-1.00000	111200	1	1.00000					EM831111
1356- EM831111	111201	1-0.92332	111202	1	1.00000					EM831121
1357- EM831121	111203	1-0.98268								
1358- MPC	8312	1-1.00000	111200	1	1.00000					EM831211
1359- EM831211	111201	1-0.70711	111202	1	1.00000					EM831221
1360- EM831221	111203	1-0.70711								
1361- MPC	8313	1-1.00000	111200	1	1.00000					EM831311
1362- EM831311	111201	1-0.34268	111202	1	1.00000					EM831321
1363- EM831321	111203	1-0.92332								
1364- MPC	8314	1-1.00000	111200	1	1.00000					EM831411
1365- EM831411	111201	1-0.00000	111202	1	1.00000					EM831421
1366- EM831421	111203	1-0.00000								
1367- MPC	8315	1-1.00000	111200	1	1.00000					EM831511
1368- EM831511	111201	1-0.34268	111202	1	1.00000					EM831521
1369- EM831521	111203	1-0.92332								
1370- MPC	8316	1-1.00000	111200	1	1.00000					EM831611
1371- EM831611	111201	1-0.70711	111202	1	1.00000					EM831621
1372- EM831621	111203	1-0.70711								
1373- MPC	8317	1-1.00000	111200	1	1.00000					EM831711
1374- EM831711	111201	1-0.92332	111202	1	1.00000					EM831721
1375- EM831721	111203	1-0.34268								
1376- MPC	8318	1-1.00000	111200	1	1.00000					EM831811
1377- EM831811	111201	1-1.00000	111202	1	1.00000					EM831821
1378- EM831821	111203	1-1.00000								
1379- MPC	8319	1-1.00000	111300	1	1.00000					EM833011
1380- EM833011	111301	1-1.00000	111302	1	1.00000					EM833021
1381- EM833021	111303	1-1.00000								
1382- MPC	8320	1-1.00000	111300	1	1.00000					EM833111
1383- EM833111	111301	1-0.94079	111302	1	0.92332					EM833121
1384- EM833121	111303	1-0.83147								
1385- MPC	8321	1-1.00000	111300	1	1.00000					EM833211
1386- EM833211	111301	1-0.92332	111302	1	0.70711					EM833221
1387- EM833221	111303	1-0.34268								
1388- MPC	8322	1-1.00000	111300	1	1.00000					EM833311
1389- EM833311	111301	1-0.70711	111302	1	1.00000					EM833321
1390- EM833321	111303	1-0.70711								
1391- MPC	8323	1-1.00000	111300	1	1.00000					EM833411
1392- EM833411	111301	1-0.55557	111302	1	0.38268					EM833421
1393- EM833421	111303	1-0.94079								
1394- MPC	8324	1-1.00000	111300	1	1.00000					EM833511
1395- EM833511	111301	1-0.34268	111302	1	1.00000					EM833521
1396- EM833521	111303	1-0.92332								
1397- MPC	8325	1-1.00000	111300	1	1.00000					EM833611
1398- EM833611	111301	1-0.00000	111302	1	1.00000					EM833621
1399- EM833621	111303	1-0.00000								
1400- MPC	8326	1-1.00000	111300	1	1.00000					EM833711

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1401-	EM833711	111301	111301	1-0.38268	111302	111302	1-0.70711			EM833721
1402-	EM833721	111303	111303	1 0.92388						
1403-	MPC	8338	1	-1.	111300	111302	1 0.00000			EM833811
1404-	EM833811	111301	111301	1-0.70711	111302	111302	1-0.00000			EM833821
1405-	EM833821	111303	111303	1 0.70711						
1406-	MPC	8339	1	-1.	111300	111300	1 0.00000			EM833911
1407-	EM833911	111301	111301	1-0.92388	111302	111302	1 0.70711			EM833921
1408-	EM833921	111303	111303	1-0.38268						
1409-	MPC	8340	1	-1.	111300	111300	1 0.00000			EM834011
1410-	EM834011	111301	111301	1-1.00000	111302	111302	1 0.00000			EM834021
1411-	EM834021	111303	111303	1-1.00000						
1412-	MPC	8370	1	-1.	111400	111400	1 0.00000			EM837011
1413-	EM837011	111401	111401	1 0.00000	111402	111402	1 0.00000			EM837021
1414-	EM837021	111403	111403	1 0.00000						
1415-	MPC	8371	1	-1.	111400	111400	1 0.00000			EM837111
1416-	EM837111	111401	111401	1 0.92388	111402	111402	1 0.70711			EM837121
1417-	EM837121	111403	111403	1 0.38268						
1418-	MPC	8372	1	-1.	111400	111400	1 0.00000			EM837211
1419-	EM837211	111401	111401	1 0.70711	111402	111402	1 0.00000			EM837221
1420-	EM837221	111403	111403	1-0.70711						
1421-	MPC	8373	1	-1.	111400	111400	1 0.00000			EM837311
1422-	EM837311	111401	111401	1 0.38268	111402	111402	1-0.70711			EM837321
1423-	EM837321	111403	111403	1-0.92388						
1424-	MPC	8374	1	-1.	111400	111400	1 0.00000			EM837411
1425-	EM837411	111401	111401	1 0.00000	111402	111402	1-1.00000			EM837421
1426-	EM837421	111403	111403	1-0.00000						
1427-	MPC	8375	1	-1.	111400	111400	1 0.00000			EM837511
1428-	EM837511	111401	111401	1-0.38268	111402	111402	1-0.70711			EM837521
1429-	EM837521	111403	111403	1 0.92388						
1430-	MPC	8376	1	-1.	111400	111400	1 0.00000			EM837611
1431-	EM837611	111401	111401	1-0.70711	111402	111402	1-0.00000			EM837621
1432-	EM837621	111403	111403	1 0.70711						
1433-	MPC	8377	1	-1.	111400	111400	1 0.00000			EM837711
1434-	EM837711	111401	111401	1-0.92388	111402	111402	1 0.70711			EM837721
1435-	EM837721	111403	111403	1-0.38268						
1436-	MPC	8378	1	-1.	111400	111400	1 0.00000			EM837811
1437-	EM837811	111401	111401	1-1.00000	111402	111402	1 0.00000			EM837821
1438-	EM837821	111403	111403	1-1.00000						
1439-	MPC	8390	1	-1.	111500	111500	1 0.00000			EM839011
1440-	EM839011	111501	111501	1 0.00000	111502	111502	1 0.00000			EM839021
1441-	EM839021	111503	111503	1 0.00000						
1442-	MPC	8391	1	-1.	111500	111500	1 0.00000			EM839111
1443-	EM839111	111501	111501	1 0.92388	111502	111502	1 0.70711			EM839121
1444-	EM839121	111503	111503	1 0.38268						
1445-	MPC	8392	1	-1.	111500	111500	1 0.00000			EM839211
1446-	EM839211	111501	111501	1 0.70711	111502	111502	1 0.00000			EM839221
1447-	EM839221	111503	111503	1-0.70711						
1448-	MPC	8393	1	-1.	111500	111500	1 0.00000			EM839311
1449-	EM839311	111501	111501	1 0.38268	111502	111502	1-0.70711			EM839321
1450-	EM839321	111503	111503	1-0.92388						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10	
1451-	MPC	1	8394	1	-1.	111500	1	1.00000	1	1.00000	EM839411
1452-	EM839411		111501	1	1.000000	111502	1	1.00000	1	1.00000	EM839421
1453-	EM839421		111503	1	1.000000						
1454-	MPC	1	8395	1	-1.	111500	1	1.00000	1	1.00000	EM839511
1455-	EM839511		111501	1	1.000000	111502	1	1.00000	1	1.00000	EM839521
1456-	EM839521		111503	1	1.000000						
1457-	MPC	1	8396	1	-1.	111500	1	1.00000	1	1.00000	EM839611
1458-	EM839611		111501	1	1.000000	111502	1	1.00000	1	1.00000	EM839621
1459-	EM839621		111503	1	1.000000						
1460-	MPC	1	8397	1	-1.	111500	1	1.00000	1	1.00000	EM839711
1461-	EM839711		111501	1	1.000000	111502	1	1.00000	1	1.00000	EM839721
1462-	EM839721		111503	1	1.000000						
1463-	MPC	1	8398	1	-1.	111500	1	1.00000	1	1.00000	EM839811
1464-	EM839811		111501	1	1.000000	111502	1	1.00000	1	1.00000	EM839821
1465-	EM839821		111503	1	1.000000						
1466-	MPC	1	8410	1	-1.	111600	1	1.00000	1	1.00000	EM841011
1467-	EM841011		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841021
1468-	EM841021		111603	1	1.000000						
1469-	MPC	1	8411	1	-1.	111600	1	1.00000	1	1.00000	EM841111
1470-	EM841111		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841121
1471-	EM841121		111603	1	1.000000						
1472-	MPC	1	8412	1	-1.	111600	1	1.00000	1	1.00000	EM841211
1473-	EM841211		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841221
1474-	EM841221		111603	1	1.000000						
1475-	MPC	1	8413	1	-1.	111600	1	1.00000	1	1.00000	EM841311
1476-	EM841311		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841321
1477-	EM841321		111603	1	1.000000						
1478-	MPC	1	8414	1	-1.	111600	1	1.00000	1	1.00000	EM841411
1479-	EM841411		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841421
1480-	EM841421		111603	1	1.000000						
1481-	MPC	1	8415	1	-1.	111600	1	1.00000	1	1.00000	EM841511
1482-	EM841511		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841521
1483-	EM841521		111603	1	1.000000						
1484-	MPC	1	8416	1	-1.	111600	1	1.00000	1	1.00000	EM841611
1485-	EM841611		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841621
1486-	EM841621		111603	1	1.000000						
1487-	MPC	1	8417	1	-1.	111600	1	1.00000	1	1.00000	EM841711
1488-	EM841711		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841721
1489-	EM841721		111603	1	1.000000						
1490-	MPC	1	8418	1	-1.	111600	1	1.00000	1	1.00000	EM841811
1491-	EM841811		111601	1	1.000000	111602	1	1.00000	1	1.00000	EM841821
1492-	EM841821		111603	1	1.000000						
1493-	MPC	1	8419	1	-1.	111700	1	1.00000	1	1.00000	EM843011
1494-	EM843011		111701	1	1.000000	111702	1	1.00000	1	1.00000	EM843021
1495-	EM843021		111703	1	1.000000						
1496-	MPC	1	8431	1	-1.	111700	1	1.00000	1	1.00000	EM843111
1497-	EM843111		111701	1	1.000000	111702	1	1.00000	1	1.00000	EM843121
1498-	EM843121		111703	1	1.000000						
1499-	MPC	1	8432	1	-1.	111700	1	1.00000	1	1.00000	EM843211
1500-	EM843211		111701	1	1.000000	111702	1	1.00000	1	1.00000	EM843221

S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
1501-	CM843221	111703	1-0.70711							
1502-	MPC	8433	1	111700	1	1-0.00000				CM843311
1503-	CM843311	111701	1	0.38268	111702	1-0.70711				CM843321
1504-	CM843321	111703	1	0.92338						
1505-	MPC	8434	1	-1.	111700	1	1.00000			CM843411
1506-	CM843411	111701	1	0.00030	111702	1-1.00000				CM843421
1507-	CM843421	111703	1	0.00030						
1508-	MPC	8435	1	-1.	111700	1	1.00000			CM843511
1509-	CM843511	111701	1	0.38268	111702	1-0.70711				CM843521
1510-	CM843521	111703	1	0.92338						
1511-	MPC	8436	1	-1.	111700	1	1.00000			CM843611
1512-	CM843611	111701	1	0.70711	111702	1-0.00000				CM843621
1513-	CM843621	111703	1	0.70711						
1514-	MPC	8437	1	-1.	111700	1	1.00000			CM843711
1515-	CM843711	111701	1	0.92338	111702	1	0.70711			CM843721
1516-	CM843721	111703	1	0.38268						
1517-	MPC	8438	1	-1.	111700	1	1.00000			CM843811
1518-	CM843811	111701	1	0.00000	111702	1	1.00000			CM843821
1519-	CM843821	111703	1	0.00000						
1520-	OMI T1	0	1001061	1001062	1001063					
1521-	OMI T1	0	1001074	1001075	1001076	1001087	1001088	1001089		
1522-	OMI T1	0	1001101	1001101	1001102	1001113	1001114	1001115		
1523-	OMI T1	0	1001126	1001127	1001128	1001139	1001140	1001141		
1524-	OMI T1	0	1001152	1001153	1001155					
1525-	OMI T1	0	1002219	1002220	1002239	1002240				
1526-	OMI T1	0	1002259	1002260	1002279	1002280	1002300	1002301		
1527-	OMI T1	0	1002319	1002320	1002342	1002343	1002379	1002380		
1528-	OMI T1	0	1002399	1002400	1002419					
1529-	OMI T1	0	2001061	2001062	2001063					
1530-	OMI T1	0	2001074	2001075	2001076	2001087	2001088	2001089		
1531-	OMI T1	0	2001100	2001101	2001102	2001113	2001114	2001115		
1532-	OMI T1	0	2001126	2001127	2001128	2001139	2001140	2001141		
1533-	OMI T1	0	2001152	2001153	2001165					
1534-	OMI T1	0	2002219	2002220	2002239	2002240				
1535-	OMI T1	0	2002259	2002260	2002279	2002280	2002300	2002301		
1536-	OMI T1	0	2002319	2002320	2002342	2002343	2002379	2002380		
1537-	OMI T1	0	2002399	2002400	2002419					
1538-	OMI T1	0	3001061	3001062	3001063					
1539-	OMI T1	0	3001074	3001075	3001076	3001087	3001088	3001089		
1540-	OMI T1	0	3001100	3001101	3001102	3001113	3001114	3001115		
1541-	OMI T1	0	3001126	3001127	3001128	3001139	3001140	3001141		
1542-	OMI T1	0	3001152	3001153	3001165					
1543-	OMI T1	0	3002219	3002220	3002239	3002240				
1544-	OMI T1	0	3002259	3002260	3002279	3002280	3002300	3002301		
1545-	OMI T1	0	3002319	3002320	3002342	3002343	3002379	3002380		
1546-	OMI T1	0	3002399	3002400	3002419					
1547-	OMI T1	0	4001061	4001062	4001063					
1548-	OMI T1	0	4001074	4001075	4001076	4001087	4001088	4001089		
1549-	OMI T1	0	4001100	4001101	4001102	4001113	4001114	4001115		
1550-	OMI T1	0	4001126	4001127	4001128	4001139	4001140	4001141		

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CARD	1	2	3	4	5	6	7	8	9	10
1551-	OMITI	0	4001152	4001153	4001165					
1552-	OMITI	0	4002219	4002220	4002239	4002240				
1553-	OMITI	0	4002259	4002260	4002279	4002280	4002300	4002301		
1554-	OMITI	0	4002319	4002320	4002342	4002343	4002379	4002380		
1555-	OMITI	0	4002399	4002400	4002419					
1556-	PARAM	A999	2.0	.0						
1557-	RINGFL	1009	2.4	23.0	1010	1010	4.45		23.0	
1558-	RINGFL	1011	6.65	23.0	1012	1012	9.0		23.0	
1559-	RINGFL	1022	5.0	31.93	1023	1023	7.75		31.9	
1560-	RINGFL	1024	10.75	31.93	1025	1025	14.2		31.9	
1561-	RINGFL	1035	5.0	40.38	1036	1036	9.2		40.3	
1562-	RINGFL	1037	12.5	40.38	1038	1038	16.2		40.3	
1563-	RINGFL	1048	5.0	43.38	1049	1049	10.0		43.3	
1564-	RINGFL	1050	13.7	43.38	1051	1051	18.0		43.3	
1565-	RINGFL	1061	5.0	53.28	1062	1062	10.0		56.2	
1566-	RINGFL	1063	15.0	55.28	1064	1064	19.875		56.2	
1567-	RINGFL	1074	5.0	65.78	1075	1075	10.0		65.7	
1568-	RINGFL	1076	15.0	65.78	1077	1077	19.875		65.7	
1569-	RINGFL	1087	5.0	71.78	1088	1088	10.0		71.7	
1570-	RINGFL	1089	15.0	71.78	1090	1090	15.875		71.7	
1571-	RINGFL	1100	5.0	77.23	1101	1101	10.0		77.2	
1572-	RINGFL	1102	15.0	77.23	1103	1103	19.875		77.2	
1573-	RINGFL	1113	5.0	83.78	1114	1114	10.0		83.7	
1574-	RINGFL	1115	15.0	83.78	1116	1116	19.8		83.7	
1575-	RINGFL	1126	5.0	87.93	1127	1127	10.0		87.9	
1576-	RINGFL	1128	15.0	87.93	1129	1129	18.54		87.9	
1577-	RINGFL	1139	5.0	91.28	1140	1140	10.0		91.2	
1578-	RINGFL	1141	13.6	91.28	1142	1142	16.28		91.2	
1579-	RINGFL	1152	5.0	94.53	1153	1153	9.0		94.5	
1580-	RINGFL	1154	12.29	94.53	1155	1155	5.0		96.0	
1581-	RINGFL	1166	9.274	95.033	1178	1178	1.785		97.9	
1582-	RINGFL	1179	5.266	97.386						
1583-	RINGFL	2179	6.4	129.35	2180	2180	12.61		128.35	
1584-	RINGFL	2101	19.8	123.35	2199	2199	6.4		139.06	
1585-	RINGFL	2201	12.61	131.06	2201	2201	19.8		139.06	
1586-	RINGFL	2219	6.4	143.756	2220	2220	12.61		146.75	
1587-	RINGFL	2221	19.8	143.756	2239	2239	6.4		168.75	
1588-	RINGFL	2240	12.61	168.75	2241	2241	19.8		168.75	
1589-	RINGFL	2259	6.4	198.75	2260	2260	12.61		188.75	
1590-	RINGFL	2261	19.8	198.75	2279	2279	6.4		205.13	
1591-	RINGFL	2280	12.61	209.13	2281	2281	19.8		205.13	
1592-	RINGFL	2300	6.4	229.156	2301	2301	12.61		229.15	
1593-	RINGFL	2302	19.8	229.156	2319	2319	6.4		237.3	
1594-	RINGFL	2320	12.61	237.3	2321	2321	19.8		237.3	
1595-	RINGFL	2342	6.4	245.75362343	2343	2343	12.61		245.75	
1596-	RINGFL	2344	19.8	245.75362379	2379	2379	6.4		259.12	
1597-	RINGFL	2380	12.61	258.125	2381	2381	19.8		259.12	
1598-	RINGFL	2399	6.4	250.92	2400	2400	12.61		266.92	
1599-	RINGFL	2401	17.91	260.92	2419	2419	6.4		266.92	
1600-	RINGFL	2420	12.61	260.92	2439	2439	6.4		266.92	

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CARD	1	2	3	4	5	6	7	8	9	10
1601-	SPC1	1	0	1001009	1001010	1001011	1001012	1001022	1001023	
1602-	SPC1	1	0	1001024	1001025	1001035	1001036	1001037	1001038	
1603-	SPC1	1	0	1001048	1001049	1001050	1001051	1002179	1002180	
1604-	SPC1	1	0	1002181	1002199	1002200	1002201			
1605-	SPC1	1	0	2001009	2001010	2001011	2001012	2001022	2001023	
1606-	SPC1	1	0	2001024	2001025	2001035	2001036	2001037	2001038	
1607-	SPC1	1	0	2001048	2001049	2001050	2001051	2002179	2002180	
1608-	SPC1	1	0	2002181	2002199	2002200	2002201			
1609-	SPC1	1	0	3001009	3001010	3001011	3001012	3001022	3001023	
1610-	SPC1	1	0	3001024	3001025	3001035	3001036	3001037	3001038	
1611-	SPC1	1	0	3001048	3001049	3001050	3001051	3002179	3002180	
1612-	SPC1	1	0	3002181	3002199	3002200	3002201			
1613-	SPC1	1	0	4001009	4001010	4001011	4001012	4001022	4001023	
1614-	SPC1	1	0	4001024	4001025	4001035	4001036	4001037	4001038	
1615-	SPC1	1	0	4001048	4001049	4001050	4001051	4002179	4002180	
1616-	SPC1	1	0	4002181	4002199	4002200	4002201			
1617-	SPC1	1	3	8329						
1618-	SPC1	1	23	8209						
1619-	SPC1	1	123	8299						
1620-	SPC1	1	23456	5013	9140	8328	8341	8359	8360	
1621-	SPC1	1	23456	5026	THRU	5021				
1622-	SPC1	1	23456	5039	THRU	5034				
1623-	SPC1	1	23456	5052	THRU	5047				
1624-	SPC1	1	23456	5065	THRU	5060				
1625-	SPC1	1	23456	5078	THRU	5073				
1626-	SPC1	1	23456	5091	THRU	5086				
1627-	SPC1	1	23456	5104	THRU	5099				
1628-	SPC1	1	23456	5117	THRU	5112				
1629-	SPC1	1	23456	5130	THRU	5126				
1630-	SPC1	1	23456	5143	THRU	5138				
1631-	SPC1	1	23456	5156	THRU	5151				
1632-	SPC1	1	23456	5169	THRU	5164				
1633-	SPC1	1	23456	5182	THRU	5177				
1634-	SPC1	1	23456	5195	THRU	5190				
1635-	SPC1	1	23456	6070	THRU	5203				
1636-	SPC1	1	23456	6110	THRU	0070				
1637-	SPC1	1	23456	6130	THRU	8119				
1638-	SPC1	1	23456	6150	THRU	8139				
1639-	SPC1	1	23456	6170	THRU	8159				
1640-	SPC1	1	23456	6190	THRU	8178				
1641-	SPC1	1	23456	6210	THRU	8198				
1642-	SPC1	1	23456	6230	THRU	8218				
1643-	SPC1	1	23456	6250	THRU	8238				
1644-	SPC1	1	23456	6270	THRU	8258				
1645-	SPC1	1	23456	6290	THRU	8278				
1646-	SPC1	1	23456	6310	THRU	8298				
1647-	SPC1	1	23456	6330	THRU	8318				
1648-	SPC1	1	23456	6350	THRU	8340				
1649-	SPC1	1	23456	6370	THRU	8370				
1650-	SPC1	1	23456	6390	THRU	8390				
1650-	SPC1	1	23456	6410	THRU	8418				

SORTED BULK DATA ECHO

CJUNT	1	2	3	4	5	6	7	8	9	10
1651-	SPEI	1	23456	8430	THRU	8438				
1652-	SPCI	1	23456	100200	THRU	100203				
1653-	SPCI	1	23456	100300	THRU	100303				
1654-	SPCI	1	23456	100400	THRU	100403				
1655-	SPCI	1	23456	100500	THRU	100503				
1656-	SPCI	1	23456	100600	THRU	100603				
1657-	SPCI	1	23456	100700	THRU	100703				
1658-	SPCI	1	23456	100800	THRU	100803				
1659-	SPCI	1	23456	100900	THRU	100903				
1660-	SPCI	1	23456	101000	THRU	101003				
1661-	SPCI	1	23456	101100	THRU	101103				
1662-	SPCI	1	23456	101200	THRU	101203				
1663-	SPCI	1	23456	101300	THRU	101303				
1664-	SPCI	1	23456	101400	THRU	101403				
1665-	SPCI	1	23455	101500	THRU	101503				
1666-	SPCI	1	23456	101600	THRU	101603				
1667-	SPCI	1	23456	101700	THRU	101703				
1668-	SPCI	1	23456	102000	THRU	102003				
1669-	SPCI	1	23456	103000	THRU	103003				
1670-	SPCI	1	23456	104000	THRU	104003				
1671-	SPCI	1	23456	105000	THRU	105003				
1672-	SPCI	1	23456	106000	THRU	106003				
1673-	SPCI	1	23456	107000	THRU	107003				
1674-	SPCI	1	23456	108000	THRU	108003				
1675-	SPCI	1	23456	109000	THRU	109003				
1676-	SPCI	1	23456	110000	THRU	110003				
1677-	SPCI	1	23456	111000	THRU	111003				
1678-	SPCI	1	23436	111200	THRU	111203				
1679-	SPCI	1	23456	111300	THRU	111303				
1680-	SPCI	1	23456	111400	THRU	111403				
1681-	SPCI	1	23456	111500	THRU	111503				
1682-	SPCI	1	23456	111600	THRU	111603				
1683-	SPCI	1	23456	111700	THRU	111703				
1684-	SPCI	1	123456	8001	THRU	8001				
1685-	SPCI	1	123456	8010	THRU	8010				
1686-	SPCI	1	123456	8030	THRU	8030				
1687-	SPCI	1	123456	8050	THRU	8050				
1688-	SPCI	1	123436	8350	THRU	8350				

8440

ENDDATA

NASTRAN SOURCE PROGRAM COMPILATION

UNAP-UNAP INSTRUCTION NO.

- 1 BEGIN... N3.7 DIRECT, COMPLEX, EIGENVALUE, ANALYSIS, SERIES, ML, \$
- 2 FILE... KGGX=TAPE/ KGG=TAPE/ GOD=SAVE/ GMD=SAVE \$
- 3 U-J... GEOM1, GEOM2, /GPL, EOXIN, GPDT, CSTP, BGPDT, SIL/V, NOLUSEI/ CoN.
- 4 SAVE... _USEI, NOGPDT \$
- 5 PAGE... USEI, GM, GD, KAA, DAA, MAA, KAAA, KFS, EST, ECT, PLTSETX, PLTPAR, GPSETS, E-SETS, NOGPDT \$
- 6 CHKPT... GPL, EOXIN, GPDT, CSTM, BGPDT, SIL, USEI, GM, GD, AA, EAA, MAA, KAAA, EST, ECT, PLTSETX, PLTPAR, GPSETS, ELSETS \$
- 7 COND... _BL5, NOGPDT \$
- 8 U-2... GEOM2, EOXIN, ECT \$
- 9 CHKPT... ECT \$
- 10 P-TSET... _CDB, EOXIN, ECT, PLTSETX, PLTPAR, GPSETS, ELSETS/V, N, NSIL/ V, N, JUMPPLOT \$
- 11 SAVE... _NSUL, JUMPPLOT \$
- 12 PRTMSG... _TSETX// \$
- 13 S-LVAL... //V, N, PLTFLG/C, N, 1/V, N, PFILE/C, N, 0 \$
- 14 SAVE... _TFLG, PFILE \$
- 15 COND... P1, JUMPPLOT \$
- 16 P-LJT... _TPAR, GPSETS, ELSETS, CASECC, BGPDT, EOXIN, SIL, /PLOTX1/ V, N, USEI/V, N, LUSEI/V, N, JUMPPLOT/V, N, PLTFLG/V, N, PFILE \$
- 17 SAVE... PFILE \$
- 18 PRTMSG... PLJT X1// \$
- 19 COND... P1 \$
- 20 CHKPT... P-TPAR, GPSETS, ELSETS \$
- 21 U-3... GEOM3, EOXIN, GEOM2/, GPTT/C, N, 123/V, N, NOGRAV/C, N, 123 \$
- 22 CHKPT... GPTT \$



NASTRAN SOURCE PROGRAM COMPILATION

MAP-DMAP INSTRUCTION
40.

- 23 IAI EC T, EPT, BGPDI, SIL, GPTI, CSIM/EST, GEI, ECPT, GPCT/V, N, LUSET/ C, N, 123/V, N, NOSIMP=-1/C, N, 0/V, N, NOGEAL=-1/V, N, GENEL \$
- 24 SAVE NOSIMP, NOGENL, GENEL \$
- 25 PURGE K4GG, GPST, BGPST, MGG, BGG, K4NN, K4FF, K4AA, MNN, MFF, MAA, BNN, BFF, BAA, KGGX/NOSIMP / BGPST/GENEL \$
- 26 CHKPNT EST, ECPT, GPCT, GEI, K4GG, GPST, MGG, BGG, KGGX, BGPST, K4NN, K4FF, K4AA, MNN, MFF, MAA, BNN, BFF, BAA \$
- 27 COND L3LI, NOSIMP \$
- 28 SAI CSTM, MPT, ECPT, GPCT, DIT/KGGX, K4GG, GPST/V, N, NOGENL/V, N, NCK4GG \$
- 29 SAVE NCK4GG \$
- 30 PURGE K4NN, K4FF, K4AA/NCK4GG \$
- 31 CHKPNT KGGX, GPST, K4GG, K4NN, K4FF, K4AA \$
- 32 SAI CSTM, MPT, ECPT, GPCT, DIT/MGG, BGG/V, Y, WTMASS=1.0/V, N, NDMGG/V, N, NDMGG=-1/V, Y, COUPMASS/V, Y, CPBAR/V, Y, CPRD/V, Y, CPUAD1/V, Y, CPJUB2/V, Y, CP TRIA1/V, Y, CP TRIA2/V, Y, CPTUBE/V, Y, CPQDHLT/V, Y, CP ERPL1/V, Y, CP TRBSC \$
- 33 SAVE NDMGG, NDMGG \$
- 34 PURGE BIN, BFF, BAA/NDMGG/MNN, MFF, MAA/NCPGG \$
- 35 CHKPNT MGG, MNN, MFF, MAA, BGG, BNN, BFF, JAA \$
- 36 COND JULI, GINDPNT \$
- 37 COND ERROR3, NDMGG \$
- 38 SAVE JSDPT, CSTM, EQE, XIN, MGG, DGPWG/V, Y, GRDFNT=-1/V, Y, WTMASS \$
- 39 PURGE DGPWG, ...//V, N, CARDND \$
- 40 SAVE CARDND \$
- 41 LABEL JULI \$
- 42 LJJIV KGGX, KGG/NOGENL \$
- 43 CHKPNT KGG \$
- 44 COND JULI, NOGENL \$

V A S T R A N S O U R C E P R O G R A M C C M P I L A T I O N

344P-D44P INSTRUCTION

VJ.

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45 SMA3 GEI,KGGX/KGG/V,N,LUSET/V,N,NOGENL/V,N,NOCSIMP $
46 CHKPNT KJG $
47 LABEL -BL11 $
48 PAYAM //C,N,MPY/V,N,NSKIP/C,N,0/C,N,0 $
49 GP4 CASECC,GEOMA,EOEXIN,SIL,GPDT/RG,USET//V,N,LUSET/V,N,MPCF1/V,
N,MPC=2/V,N,SINGLE/V,N,OMIT/V,N,REACT/V,N,NSKIPLY/V,N,REPEAT/
V,N,NOSET=-1/V,N,NDL/V,N,NOA=-1 $
50 SAVE MPEF1,MPCF2,SINGLE,OMIT,NSKIP,NCSET,REACT,REPEAT,NDL,NGA $
50 MAT GPR GPL,USET,SIL,MGG//C,N,G
50 MAT GPR GPL,USET,SIL,KGG//C,N,G
51 PURGE G4,GMD/MPCF1/G0,GDD/OMIT/KFS,OPC/SINGLE $
52 EJJIV <JG,KNN/MPCF1/MGG,MNN/MPCF1/ BGG,BNN/MPCF1/K4GG,K4NN/MPCF1 $
53 CHKPNT GM,GMD,RG,G0,G0D,KFS,OPC,USET,KNA,MNA,BNN,K4NN $
54 CIVJ L3L4,GENEL $
55 CIVJ -3L4,NOCSIMP $
56 CIVJ GP,GPST,USET,SIL/OGPST $
57 JIV JGPST,.,.,./V,N,CAHONO $
58 JIVE CARONO $
59 LABEL L3L4 $
60 COND -3-2,MPCF2 $
61 MCL1 USET,YG/GM $
62 CHKPNT G4 $
63 AC2 USET,GM,KGG,H3G,BGG,K4GG/KNN,MNA,BNA,K4NN $
64 CHKPNT <NN,MNN,BNN,K4NN $
65 LABEL -BL2 $
66 EJJIV <NN,KFF/SINGLE/MNN,HFF/SINGLE/BNN,BFF/SINGLE/K4NN,K4FF/SINGLE $
    
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NASTRAN SOURCE PROGRAM COMPILATION
MAP-MAP INSTRUCTION

43.

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67. CTRPNT  CFF,MFF,BFF,K4FF $
68. CEND  LBL3,SINGLE $
69. SCEL  USET,KNN,MNN,BNN,K4NN/KFF,KFS,MFF,BFF,K4FF $
70. CTRPNT  KFS,KFF,MFF,BFF,K4FF $
71. LABEL  LBL3 $
72. EQUV  KFF,KAA/DMIT/ MFF,MAA/DMIT/UFF,BAA/EMIT/K4FF,K4AA/DMIT $
73. CTRPNT  KAA,MAA,BAA,K4AA $
74. MATGR  GPL,USET,SIL,MFF//C,N,F
75. MATGR  GP,USET,SIL,KFF//C,N,F
76. CEND  HLS,DMIT $
77. SPT  USET,KFF,,/GO,KAA,KOO,LOD,UOO,,,, $
78. CTRPNT  GO,KAA $
79. CEND  LBLM,NOMGG $
80. SPT  USET,GO,MFF/MAA $
81. CTRPNT  MAA $
82. LABEL  D_M $
83. CEND  -BL3,NOBGG $
84. SPT  USET,GO,BFF/DAA $
85. CTRPNT  DAA $
86. LABEL  -B-B $
87. CEND  LBL5,NOK4GG $
88. SPT  USET,GO,K4FF/K4AA $
89. CTRPNT  K4AA $
90. LABEL  LUL5 $
91. SPT  DYNAMICS,GPL,SIL,USET/GPLD,SILD,USETD,TFPDDL,,,,,BEO,EGDYN/V,
    V,USET/V,N,LUSE/D/V,N,NUTFL/V,N,ACDLT/V,N,NOPSDL/V,N,NOFRL/

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NASTRAN SOURCE PROGRAM COMPILATION

MAP-INSTRUCTION

100.

V,N,NOVLFT/V,N,NOTRL/V,N,NOEED/C,N,123/V,N,NDJE \$

90 SAVE JSETD,NDUE \$

91 LJJIV GJ,GUD/NOUE/GH,GMD/NOUE \$

92 CHKPT USETD,EED,EQDYN,TFPOOL,GOD,GMD,SILD,GPLD \$

93 PARAM //C,N,ADD/V,N,NEVER/C,N,1/C,N,0 \$

94 PARAM //C,N,MPY/V,N,REPEAT/C,N,1/C,N,1 \$

95 RMG MATPOOL,RGPD,EQEXIN,CSTM/BDPQBL/V,N,NOKBFL/V,N,NOABFL/V,N,NCKBFL/V,N,NFACT \$

96 SAVE MFAC,T,NOKUFL,NOABFL \$

97 PARAM //C,N,AND/V,N,NOFL/V,N,NOABFL/V,N,NOABFL \$

98 PURGE KSF,/NOKBFL/ADFL/NOABFL \$

99 GJND JFL3,NOFL \$

100 ATXIN, JDPPOOL,EQDYN,ABFL,KBFL/V,N,LUSETD/V,N,NOABFL/V,N,NCKBFL/C,N,0 \$

101 SAVE VJABFL,NOKBFL \$

102 M,1,UPR,GPL,uset,SIL,43FL/C,N,P

103 M,1,PR,GPL,uset,SIL,K3FL/C,N,P

104 M,1,FL3 \$

105 CHKPT ABFL,KDFL \$

106 JJJJ LBL13 \$

107 JJJJ L3L13 \$

108 JJJJ PHD,CLAMA,JP4ID,00PCI,0CPHIP,0ESCI,0EFCI,CPHIP,OPG, K2PP, M2PP,32PP,K2DD,M2DD,B2DD/REVER \$

109 CASE CASLCC,/CASEXX/C,N,CEIGN/V,N,REFEATE/V,N,NOLDOP \$

110 SAVE REPEAT,NOLDOP \$

111 CHKPT CASEXX \$

112 ATXIN CASEXX,MATPOOL,EQDYN,TFPOOL,K2DPP,M2DPP,B2PP/V,N,LUSETD/V,N,

N A S T R A N S O U R C E P R O G R A M C O M P I L A T I O N

MAP-DMAP: INSTRUCTION

VD.

111	SAVE	VOK2DPP/V,N,NOM2DPP/V,N,NOB2PP \$
112	PARAM	//C,N,AND/V,N,NOM2PP/V,N,NODAFL/V,N,NOM2DPP \$
113	PARAM	//C,N,AND/V,N,NOK2PP/V,N,NOFL /V,N,NCK2DPP \$
114	EJUV	<2DPP,K2XPP/NOKBFL/ M2DPP,M2PP/NOB8FL \$
115	COND	L3LFL1,NOKBFL \$
116	EJUV	K3FL,K2XPP/NOK2DPP \$
117	COND	L3LFL1,NOK2DPP \$
118	ADD	K3FL,K2DPP/K2XPP \$
119	LABEL	L3LFL1 \$
120	EJUV	K2XPP,K2PP/N38BFL \$
121	COND	L3LFL2,NODAFL \$
122	ADD	A3FL,K2XPP/K2PP/C,N,(-1.0,0.0) \$
122	ADD	ABFL,M2DPP/M2PP/V,N,MFACT \$
123	COND	L3LFL2 \$
126	PARAM	//C,N,AND/V,N,BDEBA/V,N,NOUE/V,N,NCB2PP \$
127	PARAM	//C,N,AND/V,N,MDEMA/V,N,NOUE/V,N,NCM2PP \$
128	PARAM	//C,N,AND/V,N,KDEK2/V,N,NOUENL/V,N,NOSIMP \$
129	PARAM	<2DPP/NOK2PP/M2DPP/NUM2PP/B2DPP/NOB2PP \$
130	EJUV	M2PP,M2DPP/NOA/B2PP,B2DPP/NOA/K2PP,K2DPP/NOA/MAA,MDD/MDEM A/BA, BDD/BOEHA \$
131	CRPNT	K2PH,M2PP,B2PP,K2DPP,M2DPP,B2DPP,BDD,MDD \$
132	COND	L3L8,N0GPD1 \$
133	GCAD	USE TO,GM,GO,KAA,MAA,KAAA,K2PP,M2PP,B2PP/KDE,BDD,MDC,GMD, GJJ,K2DPP,M2DPP,B2DPP/C,N,CMPLV/C,N,DISP/C,N,DIRECT/C,Y,G=0.0/C, V,0.0/C,N,0.0/V,N,NOK2PP/V,N,NOM2PP/V,N,NOC2PP/ V,N,MPCF1/V, V,SINGLE/V,N,DMIT1/V,N,NOUE/V,N,KCK&GG/V,N,NJBG&V,N,KDEK2/C,N,

N A S T R A Y S O U R C E P R O G R A M C O M P I L A T I O N

04AP-04AP INSTRUCTION

VU.

- 134 LABEL 3L18 \$
- 135 EQUIV B2DU,BDD/NOBGG/ M2DD,MDD/NOSIMP/ K2DD,KDD/KDEK2 \$
- 136 CHKPNT KDD,BDD,MDD,GDD,GMD \$
- 136 MATGPR GP_D,USEYD,SILD,MDD//C,N,D
- 136 MATGPR GP_D,USEYD,SILD,KDD//C,N,D
- 136 SLLMAT MGG,K7G,MFF,KFF,ABFL//C,N,PRINT
- 136 SLEMAT KBE,MDD,KDD, //C,N,PRINT
- 136 PARTIN KDD,P9,/KBP,AEM,KE/C,N,-1 \$
- 136 FRAMP AEM/AEMT \$
- 136 SJJVE KJP,AERT/PDU2/C,N,1/C,N,-L \$
- 136 ADD PDU2,/PDU3/C,Y,A999=(1,0,0,0) \$
- 136 PARTIN //C,N,NOP/V,N,TRUE=-1 \$
- 136 EQUIV PDUJ,PDU2/TRUE \$
- 136 EQUIV PDUV09,TRUE \$
- 136 PARTIN PDUJ, // \$
- 136 EQUIV PDUV09 \$
- 136 PARTIN AEM,PDU2,/MFLD/C,N,0/C,N,-1 \$
- 136 JJJPUT3 MFLD,PDU2, //C,N,0/C,Y,N1=AMF/C,Y,N2=AFD \$
- 136 PARTIN PDU2,MFLD,AEM, // \$
- 136 LABEL ER10R3 \$
- 170 EXIT
- 171 END \$

NO ERRORS FOUND - EXECUTE NASTRAN PROGRAM

Appendix B5
1/8 – SCALE EXTERNAL TANK HYDROELASTIC VIBRATION
ANALYSIS – POST MAX Q FILL CONDITION $n = 0, 1, 2, 3$
(NEGATIVE OF SURFACE PRESSURE RECOVERED)

JULY 19, 1974 NASTRAN 5/13/72

NASTRAN EXECUTIVE CONTROL DECK ECHO

```

10,ETANK,CORPOLINO
APP DISP
SOL 3.0
TIME 25
DIAG 2
DIAS 7,8,11,14,19,21,22
ALTER 71
ADD /AA,MFLD/WHI $
PRAT /C,N,N19/V,N,TRUE==1 $
EQUIV PAH,MGA/TRUE $
CLNDJ MANN19,TRLE $
MATPBN MAM.....// $
LABEL MANN103 $
ALTER 81
SEENAT HGG,KGG...//C,N,PRINT $
ALTER 91
MATG/R GOL,USET,SIL,PHIA//C,N,A
ALTER 107
SMPYAD PH1A,KAA,PHIA.../KH/C,N,3/C,N,1/C,N,2/C,N,1 $
SOLVE MI,KH/WH/C,N,1 $
SVPYAD PICJ2,PH1A,WH.../PD2/C,N,3 $
MATPBN WH,PD2...// $
ENDAI TER
CLND

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JULY 19. 1974 NASTRAN 5/13/72

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

C A S E C O N T R O L D E C K E C H O

CARD	
COUNT	
1	TITLE=EXTERNAL TANK W. FLUID
2	SUBTITLE=HARMONIC REDUCTION
3	MAXLINES=120000
4	SPC=1
5	MPC=1
6	METHOD=1
7	VECTOR=ALL
8	OUTPUT(FLOT)
9	FLOTTER CALCOMP 765,105
10	SET 1 ALL
11	SET 2 = 250 THRU 257
12	SET 3 = 91 THRU 58
13	SET 4 = 517 THRU 204
14	SET 5 = 2370 THRU 2440
15	AXES Z,MY,MY
16	MAXIMUM DEFORMATION 10.0
17	FIND SCALE,ORIGIN 1
18	FLOT
19	FLOT MODAL DEFORMATION,SET 1,ORIGIN 1,SHAPE
20	AXES X,MY,Z
21	VIEW = C,0,0,0,0,0
22	FIND SCALE,ORIGIN 2,SET 2,REGION .4,.1,1,.1
23	FLOT MODAL DEFORMATION 0,1,SET 2 ORIGIN 2,SHAPE,
24	SET 2,SYMMETRY Y,SHAPE
25	FIND SCALE,ORIGIN 3,SET 3,REGION .4,.1,1,.1
26	FLOT MODAL DEFORMATION 0,1,SET 3 ORIGIN 3,SHAPE,
27	SET 3,SYMMETRY Y,SHAPE
28	AXES MX,Z,MY
29	VIEW = 4C,0,0,0,0,C,C
30	FIND SCALE,ORIGIN 4,SET 4
31	FLOT SET 4 ORIGIN 4,SHAPE
32	FLOT MODAL DEFORMATION,SET 4,ORIGIN 4,SHAPE
33	FIND SCALE,ORIGIN 5,SET 5
34	FLOT SET 5 ORIGIN 5
35	FLOT MODAL DEFORMATION,SET 5,ORIGIN 5,SHAPE
36	BEGIN BULK

*** USER INFORMATION MESSAGE 207. BULK DATA NOT SORTED,XSORT WILL RE-ORDER DECK.

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

CARD COUNT	1	2	3	4	5	6	7	8	9	10
1-	CBAR	5517	5517	5117	5118	0.0	0.0	1.0	1	0.0
2-	CBAR	5518	5517	5118	5119	0.0	0.0	1.0	1	0.0
3-	CBAR	5519	5517	5119	5120	0.0	0.0	1.0	1	0.0
4-	CBAR	5520	5517	5120	5121	0.0	0.0	1.0	1	0.0
5-	CBAR	5521	5517	5121	5122	0.0	0.0	1.0	1	0.0
6-	CBAR	5522	5517	5122	5123	0.0	0.0	1.0	1	0.0
7-	CBAR	5523	5517	5123	5124	0.0	0.0	1.0	1	0.0
8-	CBAR	5524	5517	5124	5125	0.0	0.0	1.0	1	0.0
9-	CBAR	8440	8440	8070	8071	0.0	0.0	1.0	1	28440
10-	CBAR	8440	8440	8071	8072	0.0	0.0	1.0	1	28441
11-	CBAR	8441	8440	8072	8073	0.0	0.0	1.0	1	28442
12-	CBAR	8442	8440	8073	8074	0.0	0.0	1.0	1	28443
13-	CBAR	8442	8440	8074	8075	0.0	0.0	1.0	1	28444
14-	CBAR	8443	8440	8075	8076	0.0	0.0	1.0	1	28445
15-	CBAR	8444	8440	8076	8077	0.0	0.0	1.0	1	28446
16-	CBAR	8444	8440	8077	8078	0.0	0.0	1.0	1	28447
17-	CBAR	8445	8440	8078	8079	0.0	0.0	1.0	1	28448
18-	CBAR	8445	8440	8079	8080	0.0	0.0	1.0	1	28449
19-	CBAR	8446	8450	8170	8171	0.0	0.0	1.0	1	28450
20-	CBAR	8446	8450	8171	8172	0.0	0.0	1.0	1	28451
21-	CBAR	8447	8450	8172	8173	0.0	0.0	1.0	1	28452
22-	CBAR	8447	8450	8173	8174	0.0	0.0	1.0	1	28453
23-	CBAR	8448	8450	8174	8175	0.0	0.0	1.0	1	28454
24-	CBAR	8448	8450	8175	8176	0.0	0.0	1.0	1	28455
25-	CBAR	8449	8450	8176	8177	0.0	0.0	1.0	1	28456
26-	CBAR	8449	8450	8177	8178	0.0	0.0	1.0	1	28457
27-	CBAR	8450	8460	8190	8191	0.0	0.0	1.0	1	28460
28-	CBAR	8450	8460	8191	8192	0.0	0.0	1.0	1	28461
29-	CBAR	8451	8460	8192	8193	0.0	0.0	1.0	1	28462
30-	CBAR	8451	8460	8193	8194	0.0	0.0	1.0	1	28463
31-	CBAR	8452	8460	8194	8195	0.0	0.0	1.0	1	28463
32-	CBAR	8452	8460	8195	8196	0.0	0.0	1.0	1	28463
33-	CBAR	8453	8460	8196	8197	0.0	0.0	1.0	1	28463
34-	CBAR	8453	8460	8197	8198	0.0	0.0	1.0	1	28463
35-	CBAR	8454	8460	8198	8199	0.0	0.0	1.0	1	28463
36-	CBAR	8454	8460	8199	8200	0.0	0.0	1.0	1	28463
37-	CBAR	8455	8460	8200	8201	0.0	0.0	1.0	1	28463
38-	CBAR	8455	8460	8201	8202	0.0	0.0	1.0	1	28463
39-	CBAR	8456	8460	8202	8203	0.0	0.0	1.0	1	28463
40-	CBAR	8456	8460	8203	8204	0.0	0.0	1.0	1	28463
41-	CBAR	8457	8460	8204	8205	0.0	0.0	1.0	1	28463
42-	CBAR	8457	8460	8205	8206	0.0	0.0	1.0	1	28463
43-	CBAR	8458	8460	8206	8207	0.0	0.0	1.0	1	28463
44-	CBAR	8458	8460	8207	8208	0.0	0.0	1.0	1	28463
45-	CBAR	8459	8460	8208	8209	0.0	0.0	1.0	1	28463
46-	CBAR	8459	8460	8209	8210	0.0	0.0	1.0	1	28463
47-	CBAR	8460	8460	8210	8211	0.0	0.0	1.0	1	28463
48-	CBAR	8460	8460	8211	8212	0.0	0.0	1.0	1	28463
49-	CBAR	8461	8460	8212	8213	0.0	0.0	1.0	1	28463
50-	CBAR	8461	8460	8213	8214	0.0	0.0	1.0	1	28463

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
51-	CBAR	8464	8460	8194	8195	.0	.0	1.0	1	88464
52-	CBAR	8464	8460	-.185	0.0	0.0	-.185	0.0	0.0	88464
53-	CBAR	8465	8460	8195	8196	.0	.0	1.0	1	88465
54-	CBAR	8465	8460	-.185	0.0	0.0	-.185	0.0	0.0	88465
55-	CBAR	8466	8460	8196	8197	.0	.0	1.0	1	88466
56-	CBAR	8466	8460	-.185	0.0	0.0	-.185	0.0	0.0	88466
57-	CBAR	8467	8460	8197	8198	.0	.0	1.0	1	88467
58-	CBAR	8467	8460	-.185	0.0	0.0	-.185	0.0	0.0	88467
59-	CBAR	8470	8470	8210	8211	.0	.0	1.0	1	88470
60-	CBAR	8470	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88470
61-	CBAR	8471	8470	8211	8212	.0	.0	1.0	1	88471
62-	CBAR	8471	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88471
63-	CBAR	8472	8470	8212	8213	.0	.0	1.0	1	88472
64-	CBAR	8472	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88472
65-	CBAR	8473	8470	8213	8214	.0	.0	1.0	1	88473
66-	CBAR	8473	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88473
67-	CBAR	8474	8470	8214	8215	.0	.0	1.0	1	88474
68-	CBAR	8474	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88474
69-	CBAR	8475	8470	8215	8216	.0	.0	1.0	1	88475
70-	CBAR	8475	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88475
71-	CBAR	8476	8470	8216	8217	.0	.0	1.0	1	88476
72-	CBAR	8476	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88476
73-	CBAR	8477	8470	8217	8218	.0	.0	1.0	1	88477
74-	CBAR	8477	8470	-.1.401	0.0	0.0	-1.401	0.0	0.0	88477
75-	CBAR	8480	8480	8230	8231	.0	.0	1.0	1	88480
76-	CBAR	8480	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88480
77-	CBAR	8481	8480	8231	8232	.0	.0	1.0	1	88481
78-	CBAR	8481	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88481
79-	CBAR	8482	8480	8232	8233	.0	.0	1.0	1	88482
80-	CBAR	8482	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88482
81-	CBAR	8483	8480	8233	8234	.0	.0	1.0	1	88483
82-	CBAR	8483	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88483
83-	CBAR	8484	8480	8234	8235	.0	.0	1.0	1	88484
84-	CBAR	8484	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88484
85-	CBAR	8485	8480	8235	8236	.0	.0	1.0	1	88485
86-	CBAR	8485	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88485
87-	CBAR	8486	8480	8236	8237	.0	.0	1.0	1	88486
88-	CBAR	8486	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88486
89-	CBAR	8487	8480	8237	8238	.0	.0	1.0	1	89487
90-	CBAR	8487	8480	-.1.850	0.0	0.0	-.1.850	0.0	0.0	89487
91-	CBAR	8490	8490	8250	8251	.0	.0	1.0	1	88490
92-	CBAR	8490	8490	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88490
93-	CBAR	8491	8490	8251	8252	.0	.0	1.0	1	88491
94-	CBAR	8491	8490	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88491
95-	CBAR	8492	8490	8252	8253	.0	.0	1.0	1	88492
96-	CBAR	8492	8490	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88492
97-	CBAR	8493	8490	8253	8254	.0	.0	1.0	1	88493
98-	CBAR	8493	8490	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88493
99-	CBAR	8494	8490	8254	8255	.0	.0	1.0	1	88494
100-	CBAR	8494	8490	-.1.850	0.0	0.0	-.1.850	0.0	0.0	88494

JULY 19, 1974 NASTRAN 5/13/72

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION
CARD

SORTED BULK DATA ECHD

COUNT	1	2	3	4	5	6	7	8	9	10
101-	CBAR	849E	8490	8255	8256	.0	.0	1.0	1	8495
102-	CBAR	849E	8490	-.1850	0.0	0.0	-.1850	0.0	0.0	8495
103-	CBAR	849E	8490	8256	8257	.0	.0	1.0	1	8496
104-	CBAR	849E	8490	-.1850	0.0	0.0	-.1850	0.0	0.0	8496
105-	CBAR	849E	8490	8257	8258	.0	.0	1.0	1	8497
105-	CBAR	849E	8490	-.1850	0.0	0.0	-.1850	0.0	0.0	8497
107-	CBAR	850E	850E	8270	8271	.0	.0	1.0	1	8500
108-	CBAR	850E	850E	-.1850	0.0	0.0	-.1850	0.0	0.0	8500
109-	CBAR	850E	850E	8271	8272	.0	.0	1.0	1	8501
109-	CBAR	850E	850E	-.1850	0.0	0.0	-.1850	0.0	0.0	8501
111-	CBAR	850E	850E	8272	8273	.0	.0	1.0	1	8502
112-	CBAR	850E	850E	-.1850	0.0	0.0	-.1850	0.0	0.0	8502
113-	CBAR	850E	850E	8273	8274	.0	.0	1.0	1	8503
114-	CBAR	850E	850E	-.1850	0.0	0.0	-.1850	0.0	0.0	8503
115-	CBAR	850E	850E	8274	8275	.0	.0	1.0	1	8504
116-	CBAR	850E	850E	-.185	0.0	0.0	-.185	0.0	0.0	8504
117-	CBAR	850E	850E	8275	8276	.0	.0	1.0	1	8505
118-	CBAR	850E	850E	-.185	0.0	0.0	-.185	0.0	0.0	8505
119-	CBAR	850E	850E	8276	8277	.0	.0	1.0	1	8506
120-	CBAR	850E	850E	-.185	0.0	0.0	-.185	0.0	0.0	8506
121-	CBAR	850E	850E	8277	8278	.0	.0	1.0	1	8507
122-	CBAR	850E	850E	-.185	0.0	0.0	-.185	0.0	0.0	8507
123-	CBAR	851E	851E	8290	8291	.0	.0	1.0	1	8510
124-	CBAR	851E	851E	-1.491	0.0	0.0	-1.401	0.0	0.0	8510
125-	CBAR	851E	851E	8291	8292	.0	.0	1.0	1	8511
125-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8511
127-	CBAR	851E	851E	8292	8293	.0	.0	1.0	1	8512
128-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8512
129-	CBAR	851E	851E	8293	8294	.0	.0	1.0	1	8513
130-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8513
131-	CBAR	851E	851E	8294	8295	.0	.0	1.0	1	8514
132-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8514
133-	CBAR	851E	851E	8295	8296	.0	.0	1.0	1	8515
134-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8515
135-	CBAR	851E	851E	8296	8297	.0	.0	1.0	1	8516
136-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8516
137-	CBAR	851E	851E	8297	8298	.0	.0	1.0	1	8517
138-	CBAR	851E	851E	-1.401	0.0	0.0	-1.401	0.0	0.0	8517
139-	CBAR	852E	852E	8310	8311	.0	.0	1.0	1	8520
140-	CBAR	852E	852E	-.1950	0.0	0.0	-.1850	0.0	0.0	8520
141-	CBAR	852E	852E	8311	8312	.0	.0	1.0	1	8521
142-	CBAR	852E	852E	-.1850	0.0	0.0	-.1850	0.0	0.0	8521
143-	CBAR	852E	852E	8312	8313	.0	.0	1.0	1	8522
144-	CBAR	852E	852E	-.1850	0.0	0.0	-.1850	0.0	0.0	8522
145-	CBAR	852E	852E	8313	8314	.0	.0	1.0	1	8523
146-	CBAR	852E	852E	-.1850	0.0	0.0	-.1850	0.0	0.0	8523
147-	CBAR	852E	852E	8314	8315	.0	.0	1.0	1	8524
148-	CBAR	852E	852E	-.1850	0.0	0.0	-.1850	0.0	0.0	8524
149-	CBAR	852E	852E	8315	8316	.0	.0	1.0	1	8525
150-	CBAR	852E	852E	-.1850	0.0	0.0	-.1850	0.0	0.0	8525

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S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
151- CBAR	8526	8526	8316	8317	0.0	0.0	0.0	1.0	1.0	0.0
152- CBAR	8526	8526	-0.1850	0.0	0.0	0.0	-0.1850	0.0	0.0	0.0
153- CBAR	8527	8520	8317	8318	0.0	0.0	0.0	1.0	1.0	0.0
154- CBAR	8527	8520	-0.1850	0.0	0.0	0.0	-0.1850	0.0	0.0	0.0
155- CBAR	8530	8531	8330	8331	0.0	0.0	0.0	1.0	1.0	0.0
156- CBAR	8530	8531	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
157- CBAR	8531	8531	8331	8332	0.0	0.0	0.0	1.0	1.0	0.0
158- CBAR	8531	8531	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
159- CBAR	8532	8530	8332	8333	0.0	0.0	0.0	1.0	1.0	0.0
160- CBAR	8532	8530	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
161- CBAR	8532	8531	8333	8334	0.0	0.0	0.0	1.0	1.0	0.0
162- CBAR	8532	8531	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
163- CBAR	8534	8531	8334	8335	0.0	0.0	0.0	1.0	1.0	0.0
164- CBAR	8534	8531	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
165- CBAR	8535	8530	8335	8336	0.0	0.0	0.0	1.0	1.0	0.0
166- CBAR	8535	8530	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
167- CBAR	8536	8530	8336	8337	0.0	0.0	0.0	1.0	1.0	0.0
168- CBAR	8536	8530	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
169- CBAR	8537	8530	8337	8338	0.0	0.0	0.0	1.0	1.0	0.0
170- CBAR	8537	8530	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
171- CBAR	8538	8530	8338	8339	0.0	0.0	0.0	1.0	1.0	0.0
172- CBAR	8538	8530	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
173- CBAR	8539	8530	8339	8340	0.0	0.0	0.0	1.0	1.0	0.0
174- CBAR	8539	8530	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
175- CBAR	8540	8540	8370	8371	0.0	0.0	0.0	1.0	1.0	0.0
176- CBAR	8540	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
177- CBAR	8541	8540	8371	8372	0.0	0.0	0.0	1.0	1.0	0.0
178- CBAR	8541	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
179- CBAR	8542	8540	8372	8373	0.0	0.0	0.0	1.0	1.0	0.0
180- CBAR	8542	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
181- CBAR	8543	8540	8373	8374	0.0	0.0	0.0	1.0	1.0	0.0
182- CBAR	8543	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
183- CBAR	8544	8540	8374	8375	0.0	0.0	0.0	1.0	1.0	0.0
184- CBAR	8544	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
185- CBAR	8545	8540	8375	8376	0.0	0.0	0.0	1.0	1.0	0.0
186- CBAR	8545	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
187- CBAR	8546	8540	8376	8377	0.0	0.0	0.0	1.0	1.0	0.0
188- CBAR	8546	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
189- CBAR	8547	8540	8377	8378	0.0	0.0	0.0	1.0	1.0	0.0
190- CBAR	8547	8540	-0.393	0.0	0.0	0.0	-0.393	0.0	0.0	0.0
191- CBAR	8550	8550	8350	8351	0.0	0.0	0.0	1.0	1.0	0.0
192- CBAR	8550	8550	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
193- CBAR	8551	8550	8351	8352	0.0	0.0	0.0	1.0	1.0	0.0
194- CBAR	8551	8550	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
195- CBAR	8552	8550	8352	8353	1.0	0.0	0.0	1.2194	-0.6899	0.0
196- CBAR	8552	8550	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
197- CBAR	8553	8550	8353	8354	0.0	0.0	0.0	1.0	1.0	0.0
198- CBAR	8553	8550	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0
199- CBAR	8554	8550	8354	8355	0.0	0.0	0.0	1.0	1.0	0.0
200- CBAR	8554	8550	-1.401	0.0	0.0	0.0	-1.401	0.0	0.0	0.0

JULY 19, 1974 NASTRAN 5/13/72

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
CBAR	8550	8550	8355	8356	1.0	0.0	0.0	0.0	1	28555
CBAR	8555	8555	8356	1.2194	0.6899	-1.4010	0.0	0.0	1	28556
CBAR	8556	8556	8357	0.0	0.0	-1.401	0.0	0.0	1	28557
CBAR	8557	8557	8358	0.0	0.0	0.0	0.0	0.0	1	28400
CBAR	8557	8557	8357	-1.401	0.0	-1.401	0.0	0.0	1	28401
CBAR	8557	8557	8358	0.0	0.0	0.0	0.0	0.0	1	28402
CBAR	8700	8400	5117	5118	0.0	-0.393	0.0	0.0	1	28403
CBAR	8700	8400	5117	5118	0.0	-0.393	0.0	0.0	1	28404
CBAR	8701	8400	5118	5119	0.0	0.0	0.0	0.0	1	28405
CBAR	8701	8400	5118	5119	0.0	0.0	0.0	0.0	1	28406
CBAR	8702	8400	5119	5120	0.0	-0.393	0.0	0.0	1	28407
CBAR	8702	8400	5119	5120	0.0	-0.393	0.0	0.0	1	28408
CBAR	8703	8400	5120	5126	0.0	-0.393	0.0	0.0	1	28409
CBAR	8703	8400	5120	5126	0.0	-0.393	0.0	0.0	1	28410
CBAR	8704	8400	5126	5121	0.0	0.0	0.0	0.0	1	28411
CBAR	8704	8400	5126	5121	0.0	0.0	0.0	0.0	1	28412
CBAR	8705	2400	5121	5122	0.0	-0.393	0.0	0.0	1	28413
CBAR	8705	2400	5121	5122	0.0	-0.393	0.0	0.0	1	28414
CBAR	8705	2400	5122	5127	0.0	0.0	0.0	0.0	1	28415
CBAR	8706	8400	5122	5123	0.0	0.0	0.0	0.0	1	28416
CBAR	8706	8400	5122	5123	0.0	0.0	0.0	0.0	1	28417
CBAR	8707	8400	5123	5124	0.0	-0.393	0.0	0.0	1	28418
CBAR	8707	8400	5123	5124	0.0	-0.393	0.0	0.0	1	28419
CBAR	8708	8400	5124	5125	0.0	0.0	0.0	0.0	1	28420
CBAR	8708	8400	5124	5125	0.0	0.0	0.0	0.0	1	28421
CBAR	8709	8400	5125	5126	0.0	-0.393	0.0	0.0	1	28422
CBAR	8709	8400	5125	5126	0.0	-0.393	0.0	0.0	1	28423
CBAR	8710	8410	8111	8111	0.0	0.0	0.0	0.0	1	28424
CBAR	8710	8410	8111	8111	0.0	0.0	0.0	0.0	1	28425
CBAR	8711	8410	8112	8112	0.0	-0.185	0.0	0.0	1	28426
CBAR	8711	8410	8112	8112	0.0	-0.185	0.0	0.0	1	28427
CBAR	8712	8410	8112	8113	0.0	0.0	0.0	0.0	1	28428
CBAR	8712	8410	8112	8113	0.0	0.0	0.0	0.0	1	28429
CBAR	8713	8410	8113	8114	0.0	-0.185	0.0	0.0	1	28430
CBAR	8713	8410	8113	8114	0.0	-0.185	0.0	0.0	1	28431
CBAR	8714	8410	8114	8115	0.0	0.0	0.0	0.0	1	28432
CBAR	8714	8410	8114	8115	0.0	0.0	0.0	0.0	1	28433
CBAR	8715	8410	8115	8116	0.0	-0.185	0.0	0.0	1	28434
CBAR	8715	8410	8115	8116	0.0	-0.185	0.0	0.0	1	28435
CBAR	8716	8410	8116	8117	0.0	0.0	0.0	0.0	1	28436
CBAR	8716	8410	8116	8117	0.0	0.0	0.0	0.0	1	28437
CBAR	8717	8410	8117	8118	0.0	-0.185	0.0	0.0	1	28438
CBAR	8717	8410	8117	8118	0.0	-0.185	0.0	0.0	1	28439
CBAR	8718	8410	8118	8119	0.0	0.0	0.0	0.0	1	28440
CBAR	8718	8410	8118	8119	0.0	0.0	0.0	0.0	1	28441
CBAR	8720	8420	8130	8131	0.0	-0.185	0.0	0.0	1	28442
CBAR	8720	8420	8130	8131	0.0	-0.185	0.0	0.0	1	28443
CBAR	8721	8420	8131	8132	0.0	-1.401	0.0	0.0	1	28444
CBAR	8721	8420	8131	8132	0.0	-1.401	0.0	0.0	1	28445
CBAR	8722	8420	8132	8133	0.0	0.0	0.0	0.0	1	28446
CBAR	8722	8420	8132	8133	0.0	0.0	0.0	0.0	1	28447
CBAR	8723	8420	8133	8134	0.0	-1.401	0.0	0.0	1	28448
CBAR	8723	8420	8133	8134	0.0	-1.401	0.0	0.0	1	28449
CBAR	8724	8420	8134	8135	0.0	0.0	0.0	0.0	1	28450
CBAR	8724	8420	8134	8135	0.0	0.0	0.0	0.0	1	28451

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

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Volume II

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
251-	CBAR	8724	8420	8134	8135	.0	.0	1.0	1.0	88424
252-	CBAR	8725	8420	1.401	0.0	0.0	-1.4010	0.0	0.0	88424
253-	CBAR	8725	8420	8135	8136	.0	.0	1.0	1.0	88425
254-	CBAR	8726	8420	-1.401	0.0	0.0	-1.401	0.0	0.0	88425
255-	CBAR	8726	8420	8136	8137	.0	.0	1.0	1.0	88426
256-	CBAR	8727	8420	-1.401	0.0	0.0	-1.401	0.0	0.0	88426
257-	CBAR	8727	8420	8137	8138	.0	.0	1.0	1.0	88427
258-	CBAR	8728	8420	-1.401	0.0	0.0	-1.401	0.0	0.0	88427
259-	CBAR	8728	8420	8138	8139	.0	.0	1.0	1.0	88428
260-	CBAR	8729	8420	-1.401	0.0	0.0	-1.401	0.0	0.0	88428
261-	CBAR	8730	8430	8139	8140	.0	.0	1.0	1.0	88430
262-	CBAR	8730	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88430
263-	CBAR	8731	8430	8140	8141	.0	.0	1.0	1.0	88431
264-	CBAR	8731	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88431
265-	CBAR	8732	8430	8141	8142	.0	.0	1.0	1.0	88432
266-	CBAR	8732	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88432
267-	CBAR	8733	8430	8142	8143	.0	.0	1.0	1.0	88433
268-	CBAR	8733	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88433
269-	CBAR	8734	8430	8143	8144	.0	.0	1.0	1.0	88434
270-	CBAR	8734	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88434
271-	CBAR	8735	8430	8144	8145	.0	.0	1.0	1.0	88435
272-	CBAR	8735	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88435
273-	CBAR	8736	8430	8145	8146	.0	.0	1.0	1.0	88436
274-	CBAR	8736	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88436
275-	CBAR	8737	8430	8146	8147	.0	.0	1.0	1.0	88437
276-	CBAR	8737	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88437
277-	CBAR	8738	8430	8147	8148	.0	.0	1.0	1.0	88438
278-	CBAR	8738	8430	-1.401	0.0	0.0	-1.401	0.0	0.0	88438
279-	CCNM2	8750	8210	69	.001053	.0	.0	.0	.0	
280-	CCNM2	8751	8290	69	.000663	.0	.0	.0	.0	
281-	CCNM2	8752	8294	69	.000234	.0	.0	.0	.0	
282-	CCNM2	8753	8331	69	.001027	.0	.0	.0	.0	
283-	CCNM2	8754	8336	69	.00026	.0	.0	.0	.0	
284-	CCNM2	8755	8334	69	.000572	.0	.0	.0	.0	
285-	CCNM2	8756	8134	69	.001508	.0	.0	.0	.0	
286-	CCNM2	8757	8352	69	.000949	.0	.0	.0	.0	
287-	CCNM2	8758	8355	69	.000884	.0	.0	.0	.0	
288-	CCNM2	8759	8328	69	.000880	.0	.0	.0	.0	
289-	CCNF0D	8600	8114	8600	.1125	.0	.0	.0	.0	
290-	CCNF0D	8601	8114	8600	.2475	.0	.0	.0	.0	
291-	CCNF0D	8602	8134	8600	.2475	.0	.0	.0	.0	
292-	CCNF0D	8603	8154	8600	.1125	.0	.0	.0	.0	
293-	CCNF0D	8604	8075	8600	.0640	.0	.0	.0	.0	
294-	CCNF0D	8605	8174	8600	.0384	.0	.0	.0	.0	
295-	CCNF0D	8606	8072	8600	.0800	.0	.0	.0	.0	
296-	CCNF0D	8607	8173	8600	.0768	.0	.0	.0	.0	
297-	CCNF0D	8608	8172	8600	.0458	.0	.0	.0	.0	
298-	CCNF0D	8609	8193	8600	.0458	.0	.0	.0	.0	
299-	CCNF0D	8610	8213	8600	.0458	.0	.0	.0	.0	
300-	CCNF0D	8611	8232	8600	.0458	.0	.0	.0	.0	
301-	CCNF0D	8612	8253	8600	.0458	.0	.0	.0	.0	
302-	CCNF0D	8613	8273	8600	.0458	.0	.0	.0	.0	

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EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

CARD COUNT	1	2	3	4	5	6	7	8	9	10
CONRD 8613	8273	8293	8600	.0458						
CONFCO 8614	8293	8313	8600	.0458						
CONFOD 8615	8335	8335	8600	.0458						
CONFOD 8616	8335	8373	8600	.0458						
CONFOD 8620	8134	8140	8600	.0870						
CONFOD 8621	8290	8294	8600	.2630						
CONFOD 8622	8294	8299	8600	.2630						
CONFOD 8623	8330	8336	8600	.2630						
CONRDO 8624	8336	8341	8600	.2630						
CONFOD 8625	8352	8359	8600	.2630						
CONFOD 8626	835E	8360	8600	.378						
CONFOD 8627	832E	8331	8600	.933						
CONFOD 8628	832E	8290	8600	.933						
CONFOD 8625	8325	8334	8500	.263						
CORC2C 69	0	-81.5683.0	35.5985	66.9096 .0	26.5170	669				
669	68.25	0.0	48.432							
CORF2C 100	656	74.738	-30.494	6.138	200.0	-30.494	6.138	6C5SRM		
6C5SRM 74.738	0.0	0.0								
CORC2C 5001	0	-81.5683.0	35.5985	66.9096 .0	26.5170	6C0				
6C0	68.25	0.0	48.432							
CORC2C 5100	0	-81.5683.0	35.5985	66.9096 .0	26.5170	6C5100				
6C5100	68.25	0.0	48.432							
CORC2R 101	656	74.738	-30.494	6.138	74.738	-28.570115.6963	6R5SRM			
6R5SRM 20C.	-30.494	6.138								
CORC2R 656	0	-81.5683.0	35.5985	-80.2278.0	57.5136	6696				
6696	68.25	0.0	48.432							
CORC2R 3001	0	-81.5683.0	35.5985	-80.2278.0	57.5136	6C3001				
6C3001	68.25	0.0	48.432							
CORC2R 3002	656	245.7536-16.463111.0003	245.7536-13.75	24.9514	6C3002					
6C3002	30C.	-16.4631 11.0003								
CORC2R 10000	0	-81.5683.0	35.5985	66.9096 .0	26.5170	6C10000				
6C10000	68.25	0.0	48.432							
CORC2S 10002	10000	0.0	0.0	0.0	0.0	0.0	0.0	33.14	6C10002	
6C10002	1.	0.	33.14							
CORC2S 10003	10000	0.0	0.0	0.0	0.0	0.0	0.0	38.65	6C10003	
6C10003	1.	0.	38.65							
CORC2S 10004	10000	0.0	0.0	0.0	0.0	0.0	0.0	45.12	6C10004	
6C10004	1.	0.	45.12							
CORC2S 10005	10000	0.0	0.0	0.0	0.0	0.0	0.0	53.52	6C10005	
6C10005	1.	0.	53.52							
CORC2S 10006	10000	0.0	0.0	0.0	0.0	0.0	0.0	59.68	6C10006	
6C10006	1.	0.	59.68							
CORC2S 10010	10000	0.0	0.0	0.0	0.0	0.0	0.0	82.19	6C10010	
6C10010	1.	0.	82.19							
CORF2S 10011	10000	0.0	0.0	0.0	0.0	0.0	0.0	80.13	6C10011	
6C10011	1.	0.	80.13							
CORF2S 10012	10000	0.0	0.0	0.0	0.0	0.0	0.0	77.08	6C10012	
6C10012	1.	0.	77.08							
CORF2S 10013	10000	0.0	0.0	0.0	0.0	0.0	0.0	77.87	6C10013	
6C10013	1.	0.	77.87							

ORIGINAL PAGE IS
OF POOR QUALITY

S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT										
351-	COR2S	10014	10000	0.0	0.0	73.78	0.0	0.0	0.0	74.78
352-	EC10014	1.	0.	74.78						EC10014
353-	COR2S	10015	10000	0.0	0.0	77.08	0.0	0.0	0.0	78.08
354-	EC10015	1.	0.	78.08						EC10015
355-	COR2S	10016	10000	0.0	0.0	83.94	0.0	0.0	0.0	84.94
356-	EC10016	1.	0.	84.94						EC10016
357-	COR2S	20014	10000	0.0	0.0	255.71	0.0	0.0	0.0	256.71
358-	EC20014	1.	0.	256.71						EC20014
359-	COR2S	20015	10000	0.0	0.0	244.69	0.0	0.0	0.0	245.69
360-	EC20015	1.	0.	245.69						EC20015
361-	COR2S	20016	10000	0.0	0.0	248.21	0.0	0.0	0.0	249.21
362-	EC20016	1.	0.	249.21						EC20016
363-	COR2S	20017	10000	0.0	0.0	248.52	0.0	0.0	0.0	249.52
364-	EC20017	1.	0.	249.52						EC20017
365-	COLAD2	5005	5005	5013	5014	5027	5026			5026
366-	COLAD2	5010	5005	5014	5015	5028	5027			5027
367-	COLAD2	5011	5005	5015	5016	5029	5028			5028
368-	COLAD2	5012	5005	5016	5017	5030	5029			5029
369-	COLAD2	5013	5005	5017	5018	5031	5030			5030
370-	COLAD2	5014	5005	5018	5019	5032	5031			5031
371-	COLAD2	5015	5005	5019	5020	5033	5032			5032
372-	COLAD2	5016	5005	5020	5021	5034	5033			5033
373-	COLAD2	5017	5005	5026	5027	5040	5039			5039
374-	COLAD2	5018	5005	5027	5028	5041	5040			5040
375-	COLAD2	5019	5005	5028	5029	5042	5041			5041
376-	COLAD2	5020	5005	5029	5030	5043	5042			5042
377-	COLAD2	5021	5005	5030	5031	5044	5043			5043
378-	COLAD2	5022	5005	5031	5032	5045	5044			5044
379-	COLAD2	5023	5005	5032	5033	5046	5045			5045
380-	COLAD2	5024	5005	5033	5034	5047	5046			5046
381-	COLAD2	5025	5005	5039	5040	5053	5052			5052
382-	COLAD2	5026	5005	5040	5041	5054	5053			5053
383-	COLAD2	5027	5005	5041	5042	5056	5054			5054
384-	COLAD2	5028	5005	5042	5043	5056	5054			5054
385-	COLAD2	5029	5005	5043	5044	5057	5056			5056
386-	COLAD2	5030	5005	5044	5045	5058	5057			5057
387-	COLAD2	5031	5005	5045	5046	5059	5058			5058
388-	COLAD2	5032	5005	5046	5047	5060	5059			5059
389-	COLAD2	5033	5005	5052	5053	5066	5065			5065
390-	COLAD2	5034	5005	5053	5054	5067	5066			5066
391-	COLAD2	5035	5005	5054	5055	5068	5067			5067
392-	COLAD2	5036	5005	5055	5056	5069	5068			5068
393-	COLAD2	5037	5005	5056	5057	5070	5069			5069
394-	COLAD2	5038	5005	5057	5058	5071	5070			5070
395-	COLAD2	5039	5005	5058	5059	5072	5071			5071
396-	COLAD2	5040	5005	5059	5060	5073	5072			5072
397-	COLAD2	5041	5005	5063	5064	5079	5078			5078
398-	COLAD2	5042	5005	5066	5067	5080	5079			5079
399-	COLAD2	5043	5005	5067	5068	5081	5080			5080
400-	COLAD2	5044	5005	5068	5069	5082	5081			5081

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
401-	COUAD2	504E	5009	5069	5070	5083	5082			
402-	COLAD2	504E	5005	5070	5071	5084	5083			
403-	COUAD2	504E	5005	5071	5072	5085	5084			
404-	COUAD2	504E	5005	5072	5073	5086	5085			
405-	COLAD2	5050	5005	5078	5079	5092	5091			
406-	COLAD2	5050	5005	5079	5080	5093	5092			
407-	COLAD2	5051	5005	5080	5081	5094	5093			
408-	COUAD2	5052	5005	5081	5082	5095	5094			
409-	COLAD2	5052	5009	5082	5083	5096	5095			
410-	COUAD2	5054	5009	5083	5084	5097	5096			
411-	COLAD2	5055	5009	5084	5085	5098	5097			
412-	COLAD2	5056	5005	5085	5086	5099	5098			
413-	COLAD2	5057	5005	5091	5092	5105	5104			
414-	COLAD2	505E	5005	5092	5093	5106	5105			
415-	COLAD2	505E	5005	5093	5094	5107	5106			
416-	COLAD2	5060	5005	5094	5095	5108	5107			
417-	COUAD2	5061	5005	5095	5096	5109	5108			
418-	COUAD2	5062	5005	5096	5097	5110	5109			
419-	COUAD2	5063	5009	5097	5098	5111	5110			
420-	COUAD2	5064	5005	5098	5099	5112	5111			
421-	COLAD2	5065	5005	5104	5105	5118	5117			
422-	COLAD2	506E	5009	5105	5106	5119	5118			
423-	COLAD2	5067	5009	5106	5107	5120	5119			
424-	COUAD2	506E	5005	5107	5108	5121	5120			
425-	COLAD2	506E	5605	5109	5109	5122	5121			
426-	COLAD2	5070	5009	5109	5110	5123	5122			
427-	COUAD2	5071	5005	5110	5111	5124	5123			
428-	COUAD2	5072	5005	5111	5112	5125	5124			
429-	COUAD2	5073	5073	5117	5118	5131	5130			
430-	COUAD2	5074	5073	5118	5119	5132	5131			
431-	COUAD2	507E	5073	5119	5120	5133	5132			
432-	COLAD2	507E	5073	5120	5121	5134	5133			
433-	COLAD2	5077	5073	5121	5122	5135	5134			
434-	COUAD2	507E	5073	5122	5123	5136	5135			
435-	COLAD2	507E	5073	5123	5124	5137	5136			
436-	COUAD2	507E	5073	5124	5125	5138	5137			
437-	COUAD2	5081	5073	5130	5131	5144	5143			
438-	COUAD2	5082	5073	5131	5132	5145	5144			
439-	COUAD2	5082	5073	5132	5133	5146	5145			
440-	COLAD2	5084	5073	5133	5134	5147	5146			
441-	COLAD2	508E	5073	5134	5135	5148	5147			
442-	COLAD2	508E	5073	5135	5136	5149	5148			
443-	COLAD2	5087	5073	5136	5137	5150	5149			
444-	COLAD2	508E	5073	5137	5138	5151	5150			
445-	COLAD2	508E	5073	5143	5144	5157	5156			
446-	COUAD2	5050	5073	5144	5145	5158	5157			
447-	COLAD2	5051	5073	5145	5146	5159	5158			
448-	COLAD2	5052	5073	5146	5147	5160	5159			
449-	COLAD2	5053	5073	5147	5148	5161	5160			
450-	COLAD2	5054	5073	5148	5149	5162	5161			

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
451-	COLAD2 5095	5073	5149	5150	5163	5162				
452-	COLAD2 5096	5073	5150	5151	5164	5163				
453-	COLAD2 5097	5073	5156	5157	5170	5169				
454-	COLAD2 5098	5073	5157	5158	5171	5170				
455-	COLAD2 5099	5073	5158	5159	5172	5171				
456-	COLAD2 5100	5073	5159	5160	5173	5172				
457-	COLAD2 5101	5073	5160	5161	5174	5173				
458-	COLAD2 5102	5073	5161	5162	5175	5174				
459-	COLAD2 5103	5073	5162	5163	5176	5175				
460-	COLAD2 5104	5073	5163	5164	5177	5176				
461-	COLAD2 5105	5073	5169	5170	5183	5182				
462-	COLAD2 5106	5073	5170	5171	5184	5183				
463-	COLAD2 5107	5073	5171	5172	5185	5184				
464-	COLAD2 5108	5073	5172	5173	5186	5185				
465-	COLAD2 5109	5073	5173	5174	5187	5186				
466-	COLAD2 5110	5073	5174	5175	5188	5187				
467-	COLAD2 5111	5073	5175	5176	5189	5188				
468-	COLAD2 5112	5073	5176	5177	5190	5189				
469-	COLAD2 5113	5113	5183	5196	5195	5192				
470-	COLAD2 5114	5113	5184	5197	5196	5193				
471-	COLAD2 5115	5113	5185	5198	5197	5194				
472-	COLAD2 5116	5113	5186	5199	5198	5195				
473-	COLAD2 5117	5113	5187	5200	5199	5186				
474-	COLAD2 5118	5113	5188	5201	5200	5187				
475-	COLAD2 5119	5113	5189	5202	5201	5188				
476-	COLAD2 5120	5113	5190	5203	5202	5189				
477-	COLAD2 8010	8010	8010	8011	8031	8030				
478-	COLAD2 8011	8010	8011	8012	8032	8031				
479-	COLAD2 8012	8010	8012	8013	8033	8032				
480-	COLAD2 8013	8010	8013	8014	8034	8033				
481-	COLAD2 8014	8010	8014	8015	8035	8034				
482-	COLAD2 8015	8010	8015	8016	8036	8035				
483-	COLAD2 8016	8010	8016	8017	8037	8036				
484-	COLAD2 8017	8010	8017	8018	8038	8037				
485-	COLAD2 8020	8010	8030	8031	8051	8050				
486-	COLAD2 8021	8010	8031	8032	8052	8051				
487-	COLAD2 8022	8010	8032	8033	8053	8052				
488-	COLAD2 8023	8010	8033	8034	8054	8053				
489-	COLAD2 8024	8010	8034	8035	8055	8054				
490-	COLAD2 8026	8010	8035	8036	8056	8055				
491-	COLAD2 8026	8010	8036	8037	8057	8056				
492-	COLAD2 8037	8010	8037	8038	8058	8057				
493-	COLAD2 8050	8010	8050	8051	8071	8070				
494-	COLAD2 8051	8010	8051	8052	8072	8071				
495-	COLAD2 8052	8010	8052	8053	8073	8072				
496-	COLAD2 8053	8010	8053	8054	8074	8073				
497-	COLAD2 8054	8010	8054	8055	8075	8074				
498-	COLAD2 8055	8010	8055	8056	8076	8075				
499-	COLAD2 8056	8010	8056	8057	8077	8076				
500-	COLAD2 8057	8010	8057	8058	8078	8077				

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
501-	COLAD2	8070	8150	5117	5118	8111	8110			
502-	COLAD2	8071	8150	5118	5119	8112	8111			
503-	COLAD2	8072	8072	5119	5120	8113	8112			
504-	COLAD2	8073	8072	5120	5125	8114	8113			
505-	COLAD2	8074	8072	5126	5121	8115	8114			
505-	COLAD2	8075	8072	5121	5122	8116	8115			
505-	COLAD2	8076	8150	5122	5123	8117	8116			
513-	COLAD2	8077	8150	5123	5124	8118	8117			
507-	COLAD2	8078	8150	5124	5125	8119	8118			
513-	COLAD2	8090	8150	8110	8111	8131	8130			
511-	COLAD2	8091	8150	8111	8112	8132	8131			
512-	COLAD2	8092	8092	8112	8113	8133	8132			
513-	COLAD2	8093	8072	8113	8114	8134	8133			
514-	COLAD2	8094	8072	8114	8115	8135	8134			
515-	COLAD2	8095	8092	8115	8116	8136	8135			
515-	COLAD2	8096	8150	8116	8117	8137	8136			
517-	COLAD2	8097	8150	8117	8118	8138	8137			
513-	COLAD2	8098	8150	8118	8119	8139	8138			
513-	COLAD2	8110	8150	8130	8131	8151	8150			
523-	COLAD2	8111	8150	8131	8132	8152	8151			
521-	COLAD2	8112	8112	8132	8133	8153	8152			
522-	COLAD2	8113	8072	8133	8134	8154	8153			
523-	COLAD2	8114	8072	8134	8135	8155	8154			
524-	COLAD2	8115	8112	8135	8136	8156	8155			
523-	COLAD2	8116	8150	8136	8137	8157	8156			
525-	COLAD2	8117	8150	8137	8138	8158	8157			
527-	COLAD2	8118	8150	8138	8139	8159	8158			
524-	COLAD2	8120	8150	8150	8151	8071	8070			
524-	COLAD2	8131	8150	8151	8152	8072	8071			
531-	COLAD2	8132	8112	8152	8153	8073	8072			
531-	COLAD2	8133	8072	8153	8154	8074	8073			
532-	COLAD2	8134	8072	8154	8155	8075	8074			
533-	COLAD2	8135	8112	8155	8156	8076	8075			
534-	COLAD2	8136	8150	8156	8157	8077	8076			
535-	COLAD2	8137	8150	8157	8158	8078	8077			
536-	COLAD2	8138	8150	8158	8159	8079	8078			
537-	COLAD2	8150	8150	8070	8071	8171	8170			
537-	COLAD2	8151	8150	8071	8072	8172	8171			
537-	COLAD2	8152	8150	8072	8073	8173	8172			
540-	COLAD2	8153	8153	8073	8075	8174	8173			
541-	COLAD2	8154	8150	8075	8076	8175	8174			
542-	COLAD2	8155	8150	8076	8077	8176	8175			
543-	COLAD2	8156	8150	8077	8078	8177	8176			
543-	COLAD2	8157	8150	8078	8079	8178	8177			
543-	COLAD2	8170	8151	8170	8171	8191	8190			
543-	COLAD2	8171	8151	8171	8172	8192	8191			
547-	COLAD2	8172	8151	8172	8173	8193	8192			
543-	COLAD2	8173	8151	8173	8174	8194	8193			
549-	COLAD2	8174	8151	8174	8175	8195	8194			
551-	COLAD2	8175	8151	8175	8176	8196	8195			

ORIGINAL PAGE IS
OF POOR QUALITY

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
551-	COUAD2	8176	8151	8176	8177	8197	8196			
552-	COLAD2	8177	8151	8177	8178	8198	8197			
553-	COUAD2	8190	8190	8190	8191	8211	8210			
554-	COUAD2	8191	8190	8191	8192	8212	8211			
555-	COUAD2	8192	8190	8192	8193	8213	8212			
556-	COUAD2	8193	8190	8193	8194	8214	8213			
557-	COUAD2	8194	8190	8194	8195	8215	8214			
558-	COUAD2	8195	8190	8195	8196	8216	8215			
559-	COLAD2	8196	8151	8196	8197	8217	8216			
560-	COLAD2	8197	8151	8197	8198	8218	8217			
561-	COUAD2	8210	8190	8210	8211	8231	8230			
562-	COLAD2	8211	8190	8211	8212	8232	8231			
563-	COLAD2	8212	8190	8212	8213	8233	8232			
564-	COLAD2	8213	8190	8213	8214	8234	8233			
565-	COLAD2	8214	8190	8214	8215	8235	8234			
566-	COLAD2	8215	8190	8215	8216	8236	8235			
567-	COLAD2	8216	8190	8216	8217	8237	8236			
568-	COLAD2	8217	8190	8217	8218	8238	8237			
569-	COUAD2	8230	8230	8230	8231	8251	8250			
570-	COLAD2	8231	8190	8231	8232	8252	8251			
571-	COLAD2	8232	8190	8232	8233	8253	8252			
572-	COUAD2	8233	8190	8233	8234	8254	8253			
573-	COUAD2	8234	8190	8234	8235	8255	8254			
574-	COLAD2	8235	8190	8235	8236	8256	8255			
575-	COLAD2	8236	8190	8236	8237	8257	8256			
576-	COLAD2	8237	8190	8237	8238	8258	8257			
577-	COLAD2	8250	8151	8250	8251	8271	8270			
578-	COUAD2	8251	8011	8251	8252	8272	8271			
579-	COLAD2	8252	8190	8252	8253	8273	8272			
580-	COLAD2	8253	8190	8253	8254	8274	8273			
581-	COUAD2	8254	8190	8254	8255	8275	8274			
582-	COLAD2	8255	8190	8255	8256	8276	8275			
583-	COLAD2	8256	8190	8256	8257	8277	8276			
584-	COLAD2	8257	8190	8257	8258	8278	8277			
585-	COLAD2	8270	8151	8270	8271	8291	8290			
586-	COLAD2	8271	8151	8271	8272	8292	8291			
587-	COLAD2	8272	8190	8272	8273	8293	8292			
588-	COLAD2	8273	8190	8273	8274	8294	8293			
589-	COUAD2	8274	8190	8274	8275	8295	8294			
590-	COUAD2	8275	8190	8275	8276	8296	8295			
591-	COUAD2	8276	8190	8276	8277	8297	8296			
592-	COUAD2	8277	8190	8277	8278	8298	8297			
593-	COLAD2	8290	8151	8290	8291	8311	8310			
594-	COLAD2	8291	8151	8291	8292	8312	8311			
595-	COLAD2	8292	8230	8292	8293	8313	8312			
596-	COLAD2	8293	8190	8293	8294	8314	8313			
597-	COUAD2	8294	8190	8294	8295	8315	8314			
598-	COLAD2	8295	8190	8295	8296	8316	8315			
599-	COLAD2	8296	8190	8296	8297	8317	8316			
600-	COUAD2	8297	8190	8297	8298	8318	8317			

JULY 19. 1974 NASTRAN 5/13/72

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
601-	COUAD2	8310	8151	8310	8381	8332	8330			
602-	COUAD2	8311	8151	8311	8382	8333	8332			
603-	COUAD2	8312	8151	8312	8383	8335	8333			
604-	COUAD2	8313	8190	8313	8384	8336	8335			
605-	COUAD2	8314	8190	8314	8385	8337	8336			
606-	COUAD2	8315	8190	8315	8386	8338	8337			
607-	COUAD2	8316	8190	8316	8387	8339	8338			
608-	COUAD2	8317	8190	8317	8388	8340	8339			
609-	COUAD2	8320	8330	8330	8332	8371	8370			
610-	COUAD2	8331	8011	8332	8333	8372	8371			
611-	COUAD2	8332	8151	8333	8335	8373	8372			
612-	COUAD2	8333	8011	8335	8336	8374	8373			
613-	COUAD2	8334	8011	8336	8337	8375	8374			
614-	COUAD2	8335	8011	8337	8338	8376	8375			
615-	COUAD2	8336	8011	8338	8339	8377	8376			
616-	COUAD2	8337	8011	8339	8340	8378	8377			
617-	COUAD2	8350	8010	8370	8371	8351	8350			
618-	COUAD2	8351	8010	8371	8372	8352	8351			
619-	COUAD2	8352	8010	8372	8373	8353	8352			
620-	COUAD2	8353	8010	8373	8374	8354	8353			
621-	COUAD2	8354	8010	8374	8375	8355	8354			
622-	COUAD2	8355	8010	8375	8376	8356	8355			
623-	COUAD2	8356	8010	8376	8377	8357	8356			
624-	COUAD2	8357	8010	8377	8378	8358	8357			
625-	COUAD2	8376	8011	8370	8371	8391	8390			
626-	COUAD2	8371	8011	8371	8372	8392	8391			
627-	COUAD2	8372	8011	8372	8373	8393	8392			
628-	COUAD2	8373	8011	8373	8374	8394	8393			
629-	COUAD2	8374	8011	8374	8375	8395	8394			
630-	COUAD2	8375	8011	8375	8376	8396	8395			
631-	COUAD2	8376	8011	8376	8377	8397	8396			
632-	COUAD2	8377	8011	8377	8378	8398	8397			
633-	COUAD2	8390	8011	8390	8391	8411	8410			
634-	COUAD2	8391	8011	8391	8392	8412	8411			
635-	COUAD2	8392	8011	8392	8393	8413	8412			
636-	COUAD2	8393	8011	8393	8394	8414	8413			
637-	COUAD2	8394	8011	8394	8395	8415	8414			
638-	COUAD2	8395	8011	8395	8396	8416	8415			
639-	COUAD2	8397	8011	8396	8397	8417	8416			
640-	COUAD2	8410	8011	8397	8398	8418	8417			
641-	COUAD2	8411	8011	8410	8411	8431	8430			
642-	COUAD2	8412	8011	8411	8412	8432	8431			
643-	COUAD2	8413	8011	8412	8413	8433	8432			
644-	COUAD2	8414	8011	8413	8414	8434	8433			
645-	COUAD2	8415	8011	8414	8415	8435	8434			
646-	COUAD2	8416	8011	8415	8416	8436	8435			
647-	COUAD2	8417	8011	8416	8417	8437	8436			
648-	COUAD2	8418	8011	8417	8418	8438	8437			
649-	CTPIA2	5001	5095	5001	5014	5013	5012			
650-	CTPIA2	5002	5002	5001	5015	5014	5013			

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
651-	CTRIA2	5003	5095	5001	5016	5015	.0				
652-	CTRIA2	5004	5095	5001	5017	5016	.0				
653-	CTRIA2	5005	5095	5001	5018	5017	.0				
654-	CTRIA2	5006	5095	5001	5019	5019	.0				
655-	CTRIA2	5007	5095	5001	5020	5019	.0				
656-	CTRIA2	5008	5095	5001	5021	5020	.0				
657-	CTRIA2	5121	5113	5195	5196	5204	.0				
653-	CTRIA2	5122	5113	5196	5197	5204	.0				
657-	CTRIA2	5123	5113	5197	5198	5204	.0				
663-	CTRIA2	5124	5113	5198	5199	5204	.0				
661-	CTRIA2	5125	5113	5199	5200	5204	.0				
662-	CTRIA2	5126	5113	5200	5201	5204	.0				
663-	CTRIA2	5127	5113	5201	5202	5204	.0				
664-	CTRIA2	5128	5113	5202	5203	5204	.0				
665-	CTRIA2	8000	8000	8001	8010	8011	.0				
666-	CTRIA2	8001	8000	8001	8011	8012	.0				
667-	CTRIA2	8002	8000	8001	8012	8013	.0				
663-	CTRIA2	8003	8000	8001	8013	8014	.0				
663-	CTRIA2	8004	8000	8001	8014	8015	.0				
673-	CTRIA2	8005	8000	8001	8015	8016	.0				
671-	CTRIA2	8006	8000	8001	8016	8017	.0				
672-	CTRIA2	8007	8000	8001	8017	8018	.0				
671-	CTRIA2	8430	8001	8449	8430	8431	.0				
674-	CTRIA2	8431	8001	8440	8431	8432	.0				
675-	CTRIA2	8432	8001	8440	8432	8433	.0				
676-	CTRIA2	8433	8001	8440	8433	8434	.0				
677-	CTRIA2	8434	8001	8440	8434	8435	.0				
678-	CTRIA2	8435	8001	8440	8435	8436	.0				
679-	CTRIA2	8436	8001	8440	8436	8437	.0				
693-	CTRIA2	8437	8001	8440	8437	8438	.0				
651-	DM1	MFLC	0	1	1	2		128	128	2AMF	0
682-	DM1	MFLD	17	17	17	17		5.99750936E-01		*AMF	1
683-	*AMF	1	-2.00180254E-07	9.75884973E-08	-5.13396132E-08	3.88951867E-01	*AMF	2		*AMF	2
684-	*AMF	2	-1.61202849E-07	1.17548433E-07	-5.01975883E-08	2.73521832E-01	*AMF	3		*AMF	3
685-	*AMF	3	-1.11318181E-07	7.33102752E-08	-4.70881238E-08	2.81050696E-01	*AMF	4		*AMF	4
686-	*AMF	4	-1.42914928E-07	7.40217274E-08	-5.23736681E-08	2.48964071E-01	*AMF	5		*AMF	5
687-	*AMF	5	-1.33812250E-07	6.31305852E-08	-4.99470395E-08	1.78872287E-01	*AMF	6		*AMF	6
683-	*AMF	6	-8.69059387E-08	5.90598255E-08	-3.76073604E-08	1.70159863E-01	*AMF	7		*AMF	7
693-	*AMF	7	-7.65954467E-08	5.57664528E-08	-3.03963326E-08	1.25779019E-01	*AMF	8		*AMF	8
693-	*AMF	8	-6.71757866E-08	4.97084257E-08	-2.04432249E-08	8.02373290E-02	*AMF	9		*AMF	9
591-	*AMF	9	-3.55503447E-08	2.57716584E-08	-1.42092311E-08	4.37715043E-02	*AMF	10		*AMF	10
692-	*AMF	10	-1.73071726E-08	1.70259380E-08	-1.37417696E-08	1.36823319E-02	*AMF	11		*AMF	11
693-	*AMF	11	-3.65422471E-09	4.92929786E-09	-3.41605655E-09						
693-	DM1	MFLD	13	17	17			-2.00180254E-07		*AMF	13
593-	*AMF	13	2.62074455E-01	-1.03771864E-07	-5.79904719E-07	-1.69359168E-07	*AMF	14		*AMF	14
656-	*AMF	14	5.85623377E-02	-5.06920680E-08	-1.63680284E-07	-1.23502957E-07	*AMF	15		*AMF	15
657-	*AMF	15	2.36592293E-02	-2.27564660E-08	-6.31134753E-08	-1.32212961E-07	*AMF	16		*AMF	16
693-	*AMF	16	1.45253607E-02	-1.52535863E-08	-4.0075067E-08	-1.17985051E-07	*AMF	17		*AMF	17
593-	*AMF	17	8.21207836E-01	-8.59573746E-09	-2.34883861E-08	-8.54429913E-08	*AMF	18		*AMF	18
703-	*AMF	18	4.55071777E-03	-5.09775331E-09	-1.25631231E-08	-8.16531834E-08	*AMF	19		*AMF	19

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
*AMF 19	3.43131484E-03	-3.91749921E-09	-9.16277187E-09	-6.09181257E-08	*AMF 20					
*AMF 20	1.75850443E-03	-2.16631663E-09	-4.90957675E-09	-3.88952976E-08	*AMF 21					
*AMF 21	8.16836953E-04	-9.64622160E-10	-2.2985541E-09	-2.37181546E-08	*AMF 22					
*AMF 22	2.62829017E-04	-2.56703398E-10	-6.14105655E-10	-6.67433397E-09	*AMF 23					
*AMF 23	2.2612715E-05	-2.24502500E-11	-5.43919244E-11		*AMF 24					
DMI	*MFLC	19	17	9.75884973E-09	*AMF 25					
*AMF 25	-1.0277186E-07	1.55854344E-01	-1.15481214E-07	9.95563596E-08	*AMF 26					
*AMF 26	-4.56361242E-08	2.67839059E-02	-3.43343309E-08	7.41083568E-08	*AMF 27					
*AMF 27	-2.14284306E-08	7.26161525E-03	-1.07126645E-08	7.69169901E-08	*AMF 28					
*AMF 28	-1.52052380E-08	3.14712757E-03	-5.458228950E-09	6.90058073E-08	*AMF 29					
*AMF 29	-6.57807432E-09	1.14565925E-03	-2.03802131E-09	4.98198318E-08	*AMF 30					
*AMF 30	-5.08254061E-07	4.90898492E-04	-8.98737307E-10	4.73786343E-08	*AMF 31					
*AMF 31	-3.91396071E-09	2.94663245E-04	-5.26582111E-10	3.50451401E-08	*AMF 32					
*AMF 32	-2.05156669E-09	1.02667414E-04	-1.93383767E-10	2.23691039E-08	*AMF 33					
*AMF 33	-9.66346336E-10	3.33310600E-05	-6.36113968E-11	1.36033513E-08	*AMF 34					
*AMF 34	-2.18831184E-10	5.09822654E-06	-6.61263696E-12	3.81682952E-09	*AMF 35					
*AMF 35	-2.75938994E-11	1.0475924E-07	-1.31680962E-13		*AMF 36					
DMI	*MFLD	20	17	-5.13396152E-03	*AMF 37					
*AMF 37	-5.75954719E-07	-1.15481214E-07	1.19105399E-01	-6.44834586E-08	*AMF 38					
*AMF 38	-1.63347067E-07	-3.30284564E-08	1.17744915E-02	-4.84915432E-08	*AMF 39					
*AMF 39	-6.52957510E-08	-1.07332170E-08	2.18403735E-07	-5.07903053E-08	*AMF 40					
*AMF 40	-4.05190513E-08	-5.12167730E-09	6.56226769E-04	-4.5215534E-08	*AMF 41					
*AMF 41	-2.24923546E-08	-2.00829178E-09	1.54654642E-04	-3.25102754E-08	*AMF 42					
*AMF 42	-1.24565617E-08	-8.42239393E-10	5.15687861E-05	-3.09430703E-08	*AMF 43					
*AMF 43	-9.35070688E-09	-5.40196554E-10	2.42911592E-05	-2.28782575E-08	*AMF 44					
*AMF 44	-4.8129393E-09	-1.93700625E-10	5.27083921E-06	-1.45959262E-08	*AMF 45					
*AMF 45	-2.2356705E-09	-6.39418379E-11	1.05413618E-06	-8.87232687E-09	*AMF 46					
*AMF 46	-7.22054860E-10	-9.95774557E-12	4.73843684E-08	-2.48904386E-09	*AMF 47					
*AMF 47	-6.16866763E-11	-2.070322958E-13	1.70598627E-10		*AMF 48					
DMI	*MFLD	21	17	3.88051867E-01	*AMF 49					
*AMF 49	-1.69359168E-07	9.95563596E-05	-6.44834586E-08	7.97734439E-01	*AMF 50					
*AMF 50	-3.25585518E-07	2.25224085E-07	-7.80250101E-08	5.0292722E-01	*AMF 51					
*AMF 51	-2.11524004E-07	1.32427659E-07	-8.07746119E-08	5.10307133E-01	*AMF 52					
*AMF 52	-2.98947581E-07	1.32769131E-07	-9.30437418E-08	4.48567497E-01	*AMF 53					
*AMF 53	-2.40874726E-07	1.13167749E-07	-7.328552072E-08	3.21601212E-01	*AMF 54					
*AMF 54	-1.61540640E-07	1.05943684E-07	-6.74574494E-08	3.055988245E-01	*AMF 55					
*AMF 55	-1.39202154E-07	1.00007298E-07	-5.45148637E-08	2.25656569E-01	*AMF 56					
*AMF 56	-1.21525581E-07	8.73375825E-08	-3.66608752E-08	1.43864770E-01	*AMF 57					
*AMF 57	-7.08240577E-09	4.61987852E-08	-2.54773557E-08	8.74247551E-02	*AMF 58					
*AMF 58	-3.16185847E-08	3.06247543E-08	-2.46325054E-08	2.45257393E-02	*AMF 59					
*AMF 59	-7.06620540E-09	8.83577400E-09	-6.12338874E-09		*AMF 60					
DMI	*MFLD	22	17	-1.61232549E-07	*AMF 61					
*AMF 61	5.85623377E-02	-4.56361242E-08	-1.63347067E-07	-3.25585518E-07	*AMF 62					
*AMF 62	1.78371847E-01	-1.03358957E-07	-5.03851879E-07	-2.20105960E-07	*AMF 63					
*AMF 63	6.26575351E-02	-4.7757958E-08	-1.68840927E-07	-2.34563913E-07	*AMF 64					
*AMF 64	3.7204625E-02	-3.10080852E-08	-1.03370451E-07	-2.08457266E-07	*AMF 65					
*AMF 65	2.03292556E-02	-1.93360066E-08	-5.82627420E-08	-1.51141640E-07	*AMF 66					
*AMF 66	1.11925751E-02	-1.17161640E-08	-3.09392059E-08	-1.44539390E-07	*AMF 67					
*AMF 67	8.41044262E-03	-9.11251874E-09	-2.24774155E-08	-1.08111010E-07	*AMF 68					
*AMF 68	4.25686159E-03	-5.12402210E-09	-1.20000494E-08	-6.89204285E-08	*AMF 69					

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OF POOR QUALITY

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
751-	*AMF 69	1.99309597E-03	-2.29887864E-09	-5.44170220E-09	-4.21210480E-08	*AMF 70				
752-	*AMF 70	6.43279636E-04	-6.17527363E-10	-1.49737978E-09	-1.18663159E-08	*AMF 71				
753-	*AMF 71	5.51226375E-05	-5.45624934E-11	-1.32615308E-10						
754-	DMI	*MFLC	23	17						
755-	*AMF 73	-5.06929680E-08	2.67839059E-02	-3.30284564E-08	2.25224085E-07	*AMF 74				
756-	*AMF 74	-1.03358957E-07	1.26462877E-01	-9.23723746E-08	1.60579792E-07	*AMF 75				
757-	*AMF 75	-4.75681007E-08	3.11805420E-02	-3.23957288E-08	1.64223138E-07	*AMF 76				
758-	*AMF 76	-2.56355336E-08	1.29312761E-02	-1.82831705E-08	1.47931871E-07	*AMF 77				
759-	*AMF 77	-2.17280309E-08	4.62135300E-03	-7.21653849E-09	1.07034282E-07	*AMF 78				
760-	*AMF 78	-1.23987206E-08	1.96200213E-03	-3.26668992E-09	1.01649164E-07	*AMF 79				
761-	*AMF 79	-5.64365295E-09	1.17161428E-03	-1.94150229E-09	7.51562652E-08	*AMF 80				
762-	*AMF 80	-5.10682003E-09	4.06190054E-04	-7.32028438E-10	4.79725450E-08	*AMF 81				
763-	*AMF 81	-2.42266029E-09	1.31603214E-04	-2.44512632E-10	2.91739148E-08	*AMF 82				
764-	*AMF 82	-8.06393574E-10	2.06888699E-05	-2.5803399E-11	8.18649326E-09	*AMF 83				
765-	*AMF 83	-7.02365144E-11	4.13635940E-07	-5.17182533E-13						
766-	DMI	*MFLC	24	17						
767-	*AMF 85	-1.03680284E-07	-3.43043309E-08	1.17744915E-02	-7.80268010E-08	*AMF 86				
768-	*AMF 86	-5.02851875E-07	9.23723746E-08	9.48956609E-02	-7.13311579E-08	*AMF 87				
769-	*AMF 87	-1.75656908E-07	-3.40159509E-08	1.71037801E-02	-7.87979398E-08	*AMF 88				
770-	*AMF 88	-1.02452635E-07	-1.74023143E-08	5.05789360E-03	-7.09887331E-08	*AMF 89				
771-	*AMF 89	-5.57406850E-08	-7.28713800E-09	1.21257624E-03	-5.10822353E-08	*AMF 90				
772-	*AMF 90	-3.0634487E-08	-3.25635341E-09	3.91629292E-04	-4.86639671E-08	*AMF 91				
773-	*AMF 91	-2.30642687E-08	-2.02448969E-09	1.83045637E-04	-3.59786547E-08	*AMF 92				
774-	*AMF 92	-1.17552545E-08	-7.43055617E-10	3.97126860E-05	-2.29503812E-08	*AMF 93				
775-	*AMF 93	-5.45288970E-09	-2.48639597E-10	7.95273809E-06	-1.39472078E-08	*AMF 94				
776-	*AMF 94	-1.75563132E-09	-3.94244359E-11	3.57091494E-07	-3.91272437E-09	*AMF 95				
777-	*AMF 95	-1.50809615E-10	-8.22092665E-13	1.28512312E-09						
778-	DMI	*MFLC	25	17						
779-	*AMF 97	-1.22502957E-07	7.41083568E-08	-4.84915432E-08	5.09292722E-01	*AMF 98				
780-	*AMF 98	-2.20105960E-07	1.60579702E-07	-7.13311579E-08	5.65225065E-01	*AMF 99				
781-	*AMF 99	-2.13148496E-07	1.35436210E-07	-6.60641604E-08	5.19230485E-01	*AMF 100				
782-	*AMF 100	-2.53051326E-07	1.30967749E-07	-8.81552182E-08	4.45596635E-01	*AMF 101				
783-	*AMF 101	-2.34189484E-07	1.11074077E-07	-7.13943948E-08	3.17531884E-01	*AMF 102				
784-	*AMF 102	-1.56607744E-07	1.04661934E-07	-6.61415243E-08	3.00828161E-01	*AMF 103				
785-	*AMF 103	-1.34066898E-07	9.81360131E-08	-5.34552989E-08	2.21598492E-01	*AMF 104				
786-	*AMF 104	-1.16340520E-07	8.52591711E-08	-3.59562691E-08	1.41137719E-01	*AMF 105				
787-	*AMF 105	-6.50151865E-08	4.52832261E-08	-2.43822563E-08	8.56810212E-01	*AMF 106				
788-	*AMF 106	-3.02533927E-08	3.00088097E-08	-2.41408102E-08	2.40357630E-02	*AMF 107				
789-	*AMF 107	-6.91245106E-09	8.65914629E-09	-6.00098460E-09						
790-	DMI	*MFLC	26	17						
791-	*AMF 109	2.36592293E-02	-2.14284306E-08	-6.52957510E-08	-1.14348154E-07	*AMF 109				
792-	*AMF 110	6.26575351E-02	-4.79810076E-08	-1.75656908E-07	-2.11528004E-07	*AMF 110				
793-	*AMF 111	1.06022775E-01	-5.49685524E-08	-2.9202824E-07	-2.13148496E-07	*AMF 111				
794-	*AMF 112	5.45338348E-02	-3.81453624E-08	-1.53651740E-07	-2.18730520E-07	*AMF 112				
795-	*AMF 113	2.80268490E-02	-2.32475053E-08	-8.09641847E-08	-1.91377694E-07	*AMF 113				
796-	*AMF 114	1.51125118E-02	-1.44351446E-08	-4.19710844E-08	-1.38785481E-07	*AMF 114				
797-	*AMF 115	1.12371743E-02	-1.13713661E-08	-3.01211394E-08	-1.32762352E-07	*AMF 115				
798-	*AMF 116	5.66592586E-03	-6.51430092E-09	-1.50094888E-08	-9.96423069E-08	*AMF 116				
799-	*AMF 117	2.62535032E-03	-2.94587554E-09	-7.18250519E-09	-6.34501589E-09	*AMF 117				
800-	*AMF 118	8.47022049E-04	-7.99805555E-10	-1.97180827E-09	-3.84419998E-08	*AMF 118				

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10	
901-	*AMF	119	7.25853024E-05	-7.15590642E-11	-1.74597475E-10					*AMF	120
902-	DMI		*MFLC	27							
903-	*AMF	121	-2.25564665E-08	7.26161525E-03	-1.4703321702E-08			7.33102752E-08		*AMF	121
904-	*AMF	122	-4.77757958E-08	3.11805420E-02	-3.40159509E-08			1.35436210E-07		*AMF	122
905-	*AMF	123	-5.45685245E-08	7.53685100E-02	-5.32369341E-08			1.32213111E-07		*AMF	123
906-	*AMF	124	-4.19740620E-08	2.7735537E-02	-3.1468039E-08			1.21071764E-07		*AMF	124
907-	*AMF	125	-2.64036663E-08	9.37557224E-03	-1.27796547E-08			8.82548647E-08		*AMF	125
908-	*AMF	126	-1.51349582E-08	3.36599994E-03	-5.85910342E-08			8.35105993E-08		*AMF	126
909-	*AMF	127	-1.19050465E-08	2.27076630E-03	-3.50269791E-09			6.17028491E-08		*AMF	127
910-	*AMF	128	-6.38251052E-09	7.75044794E-04	-1.34334077E-09			3.93981843E-08		*AMF	128
911-	*AMF	129	-3.05060886E-09	2.49649398E-04	-4.53194815E-10			2.39662583E-08		*AMF	129
912-	*AMF	130	-1.02278830E-09	3.81000718E-05	-4.84530492E-11			6.72729424E-09		*AMF	130
913-	*AMF	131	-5.04990095E-11	7.84471183E-07	-9.77044834E-13					*AMF	131
914-	DMI		*MFLD	28							
915-	*AMF	133	-6.21134352E-08	-1.07126645E-08	2.18403735E-03			-4.70881218E-09		*AMF	132
916-	*AMF	134	-1.66840927E-07	-3.23957288E-08	1.71037801E-02			-8.07746119E-08		*AMF	133
917-	*AMF	135	-2.95202824E-07	-5.32368841E-08	5.76457609E-02			-6.60641604E-08		*AMF	134
918-	*AMF	136	-1.47217804E-07	-2.82740444E-08	1.58428624E-02			-8.32104861E-09		*AMF	135
919-	*AMF	137	-7.46355755E-08	-1.26215411E-08	3.65627185E-03			-7.67071811E-08		*AMF	136
920-	*AMF	138	-4.60835098E-08	-5.68673642E-09	1.14323036E-03			-5.52387327E-08		*AMF	137
921-	*AMF	139	-2.57603044E-08	-3.5725337E-09	5.2231323E-04			-5.27013242E-08		*AMF	138
922-	*AMF	140	-1.50757273E-09	-1.33811095E-09	1.10244771E-04			-3.89457533E-09		*AMF	139
923-	*AMF	141	-6.56735465E-09	-4.52803794E-10	2.19494104E-05			-2.48321044E-08		*AMF	140
924-	*AMF	142	-2.24361152E-09	-7.31565780E-11	9.84823419E-07			-1.50813060E-08		*AMF	141
925-	*AMF	143	-1.92265216E-10	-1.53274268E-12	3.54323699E-09			-4.23095514E-09		*AMF	142
926-	DMI		*MFLC	29							
927-	*AMF	145	-1.32212961E-07	7.67169501E-08	-5.07903053E-08			2.81060696E-01		*AMF	143
928-	*AMF	146	-2.34563913E-07	1.64223139E-07	-7.87979309E-08			5.10307133E-01		*AMF	144
929-	*AMF	147	-2.18730526E-07	1.32213131E-07	-8.32104661E-08			5.19230485E-01		*AMF	145
930-	*AMF	148	-3.48593119E-07	1.56989756E-07	-1.04577964E-07			7.31136799E-01		*AMF	146
931-	*AMF	149	-2.04660091E-07	1.37462393E-07	-8.92420844E-08			5.84424794E-01		*AMF	147
932-	*AMF	150	-2.01194155E-07	1.31052047E-07	-8.40475423E-08			4.09406304E-01		*AMF	148
933-	*AMF	151	-1.76481949E-07	1.24891919E-07	-6.78871837E-08			3.84998323E-01		*AMF	149
934-	*AMF	152	-1.50363442E-07	1.08462011E-07	-4.56654535E-08			2.82041047E-01		*AMF	150
935-	*AMF	153	-8.75492105E-08	5.73352175E-08	-3.17108686E-08			1.79263532E-01		*AMF	151
936-	*AMF	154	-3.63290164E-08	3.80254939E-08	-3.60111316E-08			1.086641936E-01		*AMF	152
937-	*AMF	155	-6.76195116E-09	1.39790825E-08	-7.60914531E-09			3.04769464E-02		*AMF	153
938-	DMI		*MFLC	30							
939-	*AMF	157	1.45253607E-02	-1.52052300E-09	-4.09190513E-08			-1.42914289E-07		*AMF	154
940-	*AMF	158	3.76204625E-02	-3.56353365E-08	-1.03426235E-07			-2.58947590E-07		*AMF	155
941-	*AMF	159	5.49330346E-02	-4.19746620E-08	-1.47217804E-07			-2.53051326E-07		*AMF	156
942-	*AMF	160	1.19102372E-01	-6.43493081E-08	-3.1340383E-07			-3.48591119E-07		*AMF	157
943-	*AMF	161	5.31555573E-02	-3.79788787E-08	-1.53310964E-07			-2.87505551E-07		*AMF	158
944-	*AMF	162	2.71584786E-02	-2.36728530E-08	-7.54508427E-08			-2.06378616E-07		*AMF	159
945-	*AMF	163	1.57121687E-02	-1.86825879E-08	-5.28093016E-08			-1.96519456E-07		*AMF	160
946-	*AMF	164	5.78237391E-03	-1.07998117E-08	-2.73436279E-08			-1.47238836E-07		*AMF	161
947-	*AMF	165	4.46845695E-03	-4.30227592E-09	-1.22592461E-08			-9.35646653E-08		*AMF	162
948-	*AMF	166	1.44083472E-03	-1.34101064E-09	-3.35408346E-09			-5.72528929E-08		*AMF	163
949-	*AMF	167	1.23442064E-04	-1.21294905E-10	-2.96931146E-10			-1.61736082E-08		*AMF	164
950-	DMI		*MFLD	31							

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
891-	*AMF 169	-1.5253683E-08	3.14712757E-03	-5.12167730E-09				1.32755133E-07	*AMF 170	
892-	*AMF 170	-3.30090852E-08	1.29312761E-02	-1.74023143E-08				1.30967749E-07	*AMF 171	
893-	*AMF 171	-3.81453624E-08	2.77355537E-02	-2.82740444E-08				1.56989756E-07	*AMF 172	
894-	*AMF 172	-6.42493081E-09	8.29327703E-02	-6.82440486E-08				1.47019932E-07	*AMF 173	
895-	*AMF 173	-4.11083825E-08	2.52317376E-02	-2.80391123E-08				1.38299503E-07	*AMF 174	
896-	*AMF 174	-2.34128770E-08	9.47835119E-03	-1.2924257E-08				1.01649012E-07	*AMF 175	
897-	*AMF 175	-1.85300655E-08	5.54407388E-03	-7.73224329E-09				7.49392370E-08	*AMF 176	
898-	*AMF 176	-1.01170201E-08	1.83082954E-03	-3.01815284E-09				4.78611746E-08	*AMF 177	
899-	*AMF 177	-4.88073226E-09	5.84049150E-04	-1.02954945E-09				2.91214981E-08	*AMF 178	
900-	*AMF 178	-1.68224887E-09	8.90953816E-05	-1.11939125E-10				8.17850676E-09	*AMF 179	
901-	*AMF 179	-1.95873192E-10	1.83435077E-06	-2.27803540E-12					*AMF 180	
902-	DMI	*MFLC	32	17				-5.23736681E-08	*AMF 181	
903-	*AMF 181	-4.08075067E-08	-5.45826850E-09	6.56526769E-04				-9.30457418E-09	*AMF 182	
904-	*AMF 182	-1.03370951E-07	-1.82831705E-08	5.05789369E-03				-8.81552182E-08	*AMF 183	
905-	*AMF 183	-1.53651740E-07	-3.14680939E-04	1.58428624E-02				-1.04577964E-07	*AMF 184	
906-	*AMF 184	-3.31349383E-07	-6.92440486E-08	6.28658533E-02				-1.03103105E-07	*AMF 185	
907-	*AMF 185	-1.462351397E-07	-3.07638999E-08	1.36570256E-02				-7.44389581E-08	*AMF 186	
908-	*AMF 186	-7.42070814E-09	-1.35482843E-08	4.03625518E-03				-7.13258714E-08	*AMF 187	
909-	*AMF 187	-5.37014238E-08	-8.52006821E-09	1.76754339E-03				-5.26844746E-08	*AMF 188	
910-	*AMF 188	-2.66723461E-08	-3.21155147E-09	3.53509095E-04				-2.35693358E-08	*AMF 189	
911-	*AMF 189	-1.22460863E-08	-1.09358944E-09	6.97666401E-05				-2.03677040E-08	*AMF 190	
912-	*AMF 190	-2.92647337E-09	-1.79705834E-10	3.12051543E-06				-5.71368375E-09	*AMF 191	
913-	*AMF 191	-3.36358905E-10	-3.78140574E-12	1.12147021E-08					*AMF 192	
914-	DMI	*MFLC	33	17				2.48964671E-01	*AMF 193	
915-	*AMF 193	-1.17855052E-07	6.970059073E-08	-4.52156534E-08				4.48567867E-01	*AMF 194	
916-	*AMF 194	-2.08457266E-07	1.47931871E-07	-7.09897331E-08				4.45596635E-01	*AMF 195	
917-	*AMF 195	-1.51377654E-07	1.21071764E-07	-7.67071811E-08				5.84424794E-01	*AMF 196	
918-	*AMF 196	-2.87585351E-07	1.47019932E-07	-1.03103105E-07				6.98346550E-01	*AMF 197	
919-	*AMF 197	-2.37361712E-07	1.47279117E-07	-8.82146765E-08				4.56478119E-01	*AMF 198	
920-	*AMF 198	-2.13430837E-07	1.41393400E-07	-8.4068143E-08				4.17865515E-01	*AMF 199	
921-	*AMF 199	-1.75658257E-07	1.32153787E-07	-7.17506623E-04				3.01081624E-01	*AMF 200	
922-	*AMF 200	-1.57442628E-07	1.15156979E-07	-4.84205174E-08				1.90390766E-01	*AMF 201	
923-	*AMF 201	-9.16047611E-08	6.37019501E-08	-3.36156170E-08				1.14975631E-01	*AMF 202	
924-	*AMF 202	-4.01238449E-04	4.02103610E-04	-3.23104970E-08				3.22471745E-02	*AMF 203	
925-	*AMF 203	-9.23344956E-09	1.16161907E-04	-8.05110545E-09					*AMF 204	
926-	DMI	*MFLC	34	17				-1.33812250E-07	*AMF 205	
927-	*AMF 205	8.21207836E-03	-8.97803432E-09	-2.24923546E-08				-2.40874726E-07	*AMF 206	
928-	*AMF 206	2.03292556E-02	-2.17280309E-08	-5.57406950E-08				-2.34189486E-07	*AMF 207	
929-	*AMF 207	2.80268490E-02	-2.6403683E-08	-7.46355795E-08				-3.04660091E-07	*AMF 208	
930-	*AMF 208	5.31595573E-02	-4.11083825E-08	-1.46351397E-07				-3.37361712E-07	*AMF 209	
931-	*AMF 209	1.08508527E-01	-5.72796139E-03	-3.1697612E-07				-2.31650419E-07	*AMF 210	
932-	*AMF 210	4.76565324E-02	-1.43796920E-08	-1.33114304E-07				-2.16980254E-07	*AMF 211	
933-	*AMF 211	3.15023147E-02	-2.66644555E-08	-8.58312319E-08				-1.61744538E-07	*AMF 212	
934-	*AMF 212	1.49212168E-02	-1.54759334E-08	-4.17973034E-08				-1.02284389E-07	*AMF 213	
935-	*AMF 213	6.7408395E-03	-7.05274061E-09	-1.8434.9232E-08				-6.25984740E-08	*AMF 214	
936-	*AMF 214	2.14507895E-03	-1.95150.90E-09	-5.00332575E-09				-1.77236288E-08	*AMF 215	
937-	*AMF 215	1.84029137E-04	-1.79821602E-10	-4.42669679E-10					*AMF 216	
938-	DMI	*MFLC	35	17				6.31305952E-03	*AMF 217	
939-	*AMF 217	-8.255573746E-09	1.14565925E-03	-2.30829176E-09				1.13167744E-07	*AMF 218	
940-	*AMF 218	-1.593360066E-08	4.62135300E-03	-7.20713800E-09				1.11075678E-07	*AMF 219	

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CARD	1	2	3	4	5	6	7	8	9	10
901-	*AMF	219	-2.32475093E-08	9.37557220E-03	-1.26215411E-08					
902-	*AMF	220	-3.75788787E-08	2.52317376E-02	-3.07638999E-08					
903-	*AMF	221	-5.72756135E-08	7.51196530E-02	-6.11313453E-08					
904-	*AMF	222	-3.06567356E-08	2.53895707E-02	-2.67577143E-08					
905-	*AMF	223	-2.4787736E-08	1.31429397E-02	-1.55125619E-08					
906-	*AMF	224	-1.36582905E-08	3.97976498E-03	-6.09107796E-09					
907-	*AMF	225	-6.68363683E-09	1.24706281E-03	-2.10483985E-09					
908-	*AMF	226	-2.37647115E-09	1.90035018E-04	-2.34710251E-10					
909-	*AMF	227	-2.13350567E-10	3.91203594E-06	-4.84187430E-12					
910-	DMI		*MFLD							
911-	*AMF	229	-2.34682863E-08	-2.03802131E-09	1.58654642E-04					
912-	*AMF	230	-5.82699720E-08	-7.21653848E-09	1.21257664E-03					
913-	*AMF	231	-8.09641847E-08	-1.27798547E-08	3.6627165E-03					
914-	*AMF	232	-1.6331094E-07	-2.30381123E-08	1.36573356E-02					
915-	*AMF	233	-3.16097612E-07	-6.11313453E-08	5.67735434E-02					
916-	*AMF	234	-1.36828362E-07	-2.55959236E-08	1.52796321E-02					
917-	*AMF	235	-9.1786753E-08	-1.59746421E-08	6.17848709E-03					
918-	*AMF	236	-4.26910525E-08	-6.16177331E-09	1.10310497E-03					
919-	*AMF	237	-1.92910790E-08	-2.13998841E-09	2.15378110E-04					
920-	*AMF	238	-6.13831475E-09	-3.55947050E-10	9.53850949E-06					
921-	*AMF	239	-5.25636645E-10	-7.77896410E-12	3.41575372E-08					
922-	DMI		*MFLD							
923-	*AMF	241	-6.54420913E-08	4.98190318E-08	-3.25102754E-08					
924-	*AMF	242	-1.51141649E-07	1.07034282E-07	-5.1082353E-08					
925-	*AMF	243	-1.38765481E-07	8.82548647E-08	-5.52387327E-08					
926-	*AMF	244	-2.06378616E-07	1.98209503E-07	-7.44309581E-08					
927-	*AMF	245	-2.31658415E-07	1.12603573E-07	-6.6454599E-08					
928-	*AMF	246	-1.79095025E-07	1.25818815E-07	-6.51161258E-08					
929-	*AMF	247	-1.43114846E-07	1.9977042E-07	-5.44922756E-08					
930-	*AMF	248	-1.22977316E-07	9.19571335E-08	-3.79036993E-08					
931-	*AMF	249	-7.18515025E-08	4.80682445E-08	-2.64362812E-08					
932-	*AMF	250	-3.14031396E-08	3.16394555E-08	-2.54653081E-08					
933-	*AMF	251	-7.24679339E-09	9.13310672E-09	-6.32978470E-09					
934-	DMI		*MFLD							
935-	*AMF	253	4.5507177E-03	-5.0825401E-09	-1.24569617E-08					
936-	*AMF	254	1.11925751E-02	-1.23941920E-08	-3.0634807E-08					
937-	*AMF	255	1.5112511E-02	-1.51349582E-08	-4.90835098E-08					
938-	*AMF	256	2.71584786E-02	-2.34128770E-09	-7.43070814E-08					
939-	*AMF	257	4.76565224E-02	-3.08567354E-09	-1.36828462E-07					
940-	*AMF	258	6.28011227E-02	-3.30573577E-09	-1.74782826E-07					
941-	*AMF	259	3.61492112E-02	-2.46653116E-09	-9.70389351E-08					
942-	*AMF	260	1.4555547E-02	-1.43132937E-08	-4.19404458E-08					
943-	*AMF	261	6.63000913E-03	-6.56590842E-09	-1.8126651E-08					
944-	*AMF	262	2.0919055E-03	-1.84310012E-09	-4.87006702E-09					
945-	*AMF	263	1.79022070E-04	-1.73763531E-10	-4.30625311E-10					
946-	DMI		*MFLD							
947-	*AMF	265	-5.05775333E-09	4.90898499E-04	-8.82239394E-10					
948-	*AMF	266	-1.17161640E-08	1.96200213E-03	-3.25635341E-09					
949-	*AMF	267	-1.44351446E-08	3.86599894E-03	-5.68673642E-09					
950-	*AMF	268	-2.367286539E-08	9.78355110E-03	-1.35082843E-08					

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SORTED BULK DATA ECHD

CARD COUNT	1	2	3	4	5	6	7	8	9	10
951-	*AMF 269	-3.4379692CE-08		2.53895707E-02	-2.55959236E-08			1.29818815E-07	*AMF 270	
952-	*AMF 270	-3.30573577E-08		4.39098664E-02	-3.24104056E-04			1.07964297E-07	*AMF 271	
953-	*AMF 271	-2.5C750638E-08		1.96342915E-02	-1.77011010E-08			7.72431008E-08	*AMF 272	
954-	*AMF 272	-1.33842555E-08		5.01124561E-03	-6.97969689E-09			4.91717422E-08	*AMF 273	
955-	*AMF 273	-6.56114807E-09		1.52613628E-03	-2.48121079E-09			2.98655216E-08	*AMF 274	
956-	*AMF 274	-2.36726794E-05		2.31530721E-04	-2.80919288E-10			8.40017478E-09	*AMF 275	
957-	*AMF 275	-2.14674806E-10		4.76358309E-06	-5.87816341E-12				*AMF 276	
958-	DMI	*MFLE	40		17			-3.76073608E-08	*AMF 277	
959-	*AMF 277	-1.25631239E-08		8.98737307E-10	5.15687861E-05			-6.74574494E-08	*AMF 278	
960-	*AMF 278	-3.05392085E-08		3.26668492E-09	3.91629292E-04			-6.61415247E-08	*AMF 279	
961-	*AMF 279	-4.15710844E-08		5.85910342E-09	1.14323034E-03			-8.40475423E-08	*AMF 280	
962-	*AMF 280	-7.54588427E-08		1.29248257E-08	4.03625518E-03			-8.88068143E-08	*AMF 281	
963-	*AMF 281	-1.31114384E-07		2.67571431E-09	1.52796321E-02			-6.51161259E-08	*AMF 282	
964-	*AMF 282	-1.74782826E-07		3.24104406E-08	3.35556779E-02			-6.64910544E-08	*AMF 283	
965-	*AMF 283	-5.95541036E-08		1.90231226E-04	1.21022277E-02			-4.94025016E-08	*AMF 284	
966-	*AMF 284	-4.14342516E-08		7.17445585E-09	1.74034201E-03			-3.14492503E-08	*AMF 285	
967-	*AMF 285	-1.82272881E-08		7.51198529E-09	3.26437410E-04			-1.90147362E-08	*AMF 286	
968-	*AMF 286	-5.77038506E-09		4.41630066E-10	1.41173559E-05			-5.33387379E-09	*AMF 287	
969-	*AMF 287	-4.92805219E-10		9.44557394E-12	5.01115095E-08				*AMF 288	
970-	DMI	*MFLE	41		17			1.70158863E-01	*AMF 289	
971-	*AMF 289	-8.14531836E-08		4.73786343E-08	-3.09430703E-08			3.05588245E-01	*AMF 290	
972-	*AMF 290	-1.44539399E-07		1.01649164E-07	-4.86639671E-08			3.00822616E-01	*AMF 291	
973-	*AMF 291	-1.32762352E-07		8.35105993E-08	-5.27013245E-08			3.84998322E-01	*AMF 292	
974-	*AMF 292	-1.96519466E-07		1.01649012E-07	-7.13258714E-08			4.17865515E-01	*AMF 293	
975-	*AMF 293	-2.16580254E-07		1.92828096E-07	-6.58772024E-08			3.43769193E-01	*AMF 294	
976-	*AMF 294	-1.61021262E-07		1.07964297E-07	-6.64910544E-08			3.93243134E-01	*AMF 295	
977-	*AMF 295	-1.5851453E-07		1.16213812E-07	-5.44120624E-08			2.53815651E-01	*AMF 296	
978-	*AMF 296	-1.25131365E-07		9.55323571E-08	-3.90579334E-08			1.57233669E-01	*AMF 297	
979-	*AMF 297	-7.42261974E-08		4.97054664E-09	-2.74462444E-08			9.38442945E-02	*AMF 298	
980-	*AMF 298	-3.27233991E-08		3.27563079E-08	-2.64237592E-08			2.63085254E-02	*AMF 299	
981-	*AMF 299	-7.45671258E-09		9.47564160E-09	-6.56836363E-09				*AMF 300	
982-	DMI	*MFLE	42		17			-7.69944677E-08	*AMF 301	
983-	*AMF 301	3.42331484E-03		-3.91396071E-02	-9.39070648E-09			-1.38202154E-07	*AMF 302	
984-	*AMF 302	8.41044272E-03		9.54364297E-03	-2.30842087E-04			-1.34068898E-07	*AMF 303	
985-	*AMF 303	1.12371743E-02		-1.19859405E-04	-2.97603044E-08			-1.70948191E-07	*AMF 304	
986-	*AMF 304	1.57121687E-02		-1.86300498E-08	-5.37014238E-04			-1.78658297E-07	*AMF 305	
987-	*AMF 305	3.15823147E-02		-2.47877736E-04	-9.10706753E-08			-1.43114865E-07	*AMF 306	
988-	*AMF 306	3.61492112E-02		-2.50750638E-08	-9.95941036E-08			-1.55051457E-07	*AMF 307	
989-	*AMF 307	6.07672941E-02		3.28345706E-08	-1.61910805E-07			1.10640254E-07	*AMF 308	
990-	*AMF 308	2.11501755E-02		-1.80939031E-08	-5.89914424E-08			-6.87197712E-08	*AMF 309	
991-	*AMF 309	8.56172971E-02		-8.28159585E-08	-2.44538570E-08			-4.21239932E-08	*AMF 310	
992-	*AMF 310	2.77568330E-03		-2.35376407E-09	-6.46045351E-09			-1.20244614E-08	*AMF 311	
993-	*AMF 311	2.37225700E-04		-2.28371974E-10	-5.70626879E-10				*AMF 312	
994-	DMI	*MFLE	43		17			5.57664528E-08	*AMF 313	
995-	*AMF 313	-3.51749921E-09		2.94663245E-04	-5.40196554E-10			1.00007298E-07	*AMF 314	
996-	*AMF 314	-9.11251874E-09		1.17151428E-03	-2.02448969E-09			9.81360131E-09	*AMF 315	
997-	*AMF 315	-1.13713661E-08		2.27076630E-03	-3.57525347E-09			1.23851919E-07	*AMF 316	
998-	*AMF 316	-1.66825879E-08		5.54407304E-03	-8.52006821E-09			1.32153787E-07	*AMF 317	
999-	*AMF 317	-2.66644556E-08		1.31429397E-02	-1.59746421E-08			1.09770042E-07	*AMF 318	
1000-	*AMF 318	-2.46653116E-08		1.96342915E-02	-1.90231226E-08			1.16213812E-07	*AMF 319	

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CARD	1	2	3	4	5	6	7	8	9	10
1011	*AMF	319	-3.2834570E-08	4.2703010E-02	-2.69147122E-08	7.95056394E-08	*AMF	320		
1012	*AMF	320	-1.66179106E-08	9.39138979E-03	-1.08279714E-08	5.04940054E-09	*AMF	321		
1013	*AMF	321	-8.21567170E-09	2.72328893E-03	-3.94836519E-09	3.06580610E-08	*AMF	322		
1014	*AMF	322	-3.06215608E-09	4.08952590E-04	-4.75950934E-10	8.63915517E-09	*AMF	323		
1015	*AMF	323	-2.83045805E-10	8.40296889E-06	-1.02938931E-11		*AMF	324		
1016	DM1		*MFLE	44	17					
1017	*AMF	325	-9.16277167E-09	-5.2658211E-10	2.42011592E-05	-3.03963326E-08	*AMF	325		
1018	*AMF	326	-2.24774155E-08	-1.94150229E-09	1.83049633E-04	-5.3452989E-08	*AMF	326		
1019	*AMF	327	-3.01211394E-08	-3.50265791E-09	5.22321323E-04	-6.78871857E-08	*AMF	327		
1020	*AMF	328	-5.28003916E-08	-7.73224329E-09	1.76745339E-03	-7.17506623E-08	*AMF	328		
1021	*AMF	329	-8.52121319E-09	-1.55123619E-08	6.17848709E-03	-5.4492756E-08	*AMF	329		
1022	*AMF	330	-5.70289351E-08	-1.77011019E-09	1.21022277E-02	-5.44120424E-08	*AMF	330		
1023	*AMF	331	-1.61910805E-07	-2.59147122E-09	3.29078324E-02	-4.28752642E-09	*AMF	331		
1024	*AMF	332	-5.66260603E-08	-1.05538973E-09	4.56614047E-03	-2.76443117E-09	*AMF	332		
1025	*AMF	333	-2.40165484E-08	-3.95431552E-09	8.29478493E-04	-1.67546581E-08	*AMF	333		
1026	*AMF	334	-7.40768513E-09	-7.22233118E-10	3.67109751E-05	-4.7013772E-09	*AMF	334		
1027	*AMF	335	-6.23116670E-10	-1.59229574E-11	1.31430738E-07		*AMF	335		
1028	DM1		*MFLE	45	17					
1029	*AMF	337	-6.05181252E-08	3.50451401E-08	-2.23782575E-08	1.25778019E-01	*AMF	337		
1030	*AMF	338	-1.08111010E-07	7.51552652E-08	-3.59786547E-08	2.25656569E-01	*AMF	338		
1031	*AMF	339	-5.56423065E-08	6.17028491E-08	-3.89457333E-08	2.21598492E-01	*AMF	339		
1032	*AMF	340	-1.47238836E-07	7.49392370E-08	-5.26849746E-08	2.82049047E-01	*AMF	340		
1033	*AMF	341	-1.61744536E-07	7.53246354E-08	-4.90124066E-08	3.01083624E-01	*AMF	341		
1034	*AMF	342	-1.18427465E-07	7.72431008E-08	-1.94025910E-08	2.39314973E-01	*AMF	342		
1035	*AMF	343	-1.10640252E-07	7.55056394E-09	-4.28752642E-08	2.53815651E-01	*AMF	343		
1036	*AMF	344	-1.22828283E-07	8.46338253E-09	-2.88869089E-09	2.47322950E-01	*AMF	344		
1037	*AMF	345	-6.53843695E-08	4.22631459E-08	-2.28770389E-08	1.39764489E-01	*AMF	345		
1038	*AMF	346	-2.77003878E-08	2.7921784E-09	-2.26523298E-08	8.08407664E-02	*AMF	346		
1039	*AMF	347	-6.43795772E-09	8.14641365E-09	-5.65076519E-09	2.26350315E-02	*AMF	347		
1040	DM1		*MFLE	46	17					
1041	*AMF	349	1.75850442E-03	-2.9515669E-09	-4.81293939E-09	-6.77578669E-08	*AMF	349		
1042	*AMF	350	4.25606159E-03	-5.10882003E-09	-1.17552545E-08	-1.21529581E-07	*AMF	350		
1043	*AMF	351	6.68582586E-03	-6.39251032E-09	-1.50757273E-08	-1.18346520E-07	*AMF	351		
1044	*AMF	352	9.78371911E-03	-1.11170001E-09	-8.66783881E-09	-1.50383414E-07	*AMF	352		
1045	*AMF	353	1.45212168E-02	-1.36882903E-09	-4.26910525E-08	-1.87442428E-07	*AMF	353		
1046	*AMF	354	1.4596547E-02	-1.33842355E-09	-4.1342316E-08	-1.23077316E-07	*AMF	354		
1047	*AMF	355	2.11501755E-02	-1.66179106E-09	-5.6626663E-08	-1.22828283E-07	*AMF	355		
1048	*AMF	356	3.87309269E-02	-2.30840840E-09	-1.08921995E-07	-7.04886247E-08	*AMF	356		
1049	*AMF	357	1.31673254E-02	-9.73495418E-09	-3.60762442E-08	-4.24027142E-08	*AMF	357		
1050	*AMF	358	3.82357145E-03	-2.83700463E-09	-3.6220076E-09	-1.21701191E-08	*AMF	358		
1051	DM1		*MFLE	47	17					
1052	*AMF	361	-2.16631668E-09	1.02266744E-04	-1.93700625E-10	4.87084257E-08	*AMF	361		
1053	*AMF	362	-5.1240210E-09	4.06190054E-04	-7.4305517E-10	8.73375825E-08	*AMF	362		
1054	*AMF	363	-6.51410095E-09	7.75044784E-04	-1.33811096E-09	1.08462018E-07	*AMF	363		
1055	*AMF	364	-1.0709517E-08	1.83082954E-03	-3.21155147E-09	1.15156979E-07	*AMF	364		
1056	*AMF	365	-1.54750233E-08	3.97976498E-03	-6.1617731E-09	9.19571335E-08	*AMF	365		
1057	*AMF	366	-1.42132937E-08	5.71124561E-03	-7.17445650E-09	9.55323571E-08	*AMF	366		
1058	*AMF	367	-1.80939035E-08	9.37138979E-03	-1.05518971E-09	8.46336825E-08	*AMF	367		
1059	*AMF	368	-2.30840840E-08	2.72372551E-02	-1.94985033E-08	5.14371266E-09	*AMF	368		

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
1051-	*AMF 369	-1.04837241E-08	6.43364713E-03	-6.96429581E-09	3.09274029E-08	*AMF 370				
1052-	*AMF 370	-4.14400603E-09	9.79896169E-04	-9.10606035E-10	8.76577388E-09	*AMF 371				
1053-	*AMF 371	-4.03394429E-10	2.01707153E-05	-2.37194847E-11		*AMF 372				
1054-	DMI	*MFLD 48								
1055-	*AMF 373	-4.90595767E-09	-1.33383767E-10	5.27083921E-06	-3.66608752E-08	*AMF 374				
1056-	*AMF 374	-1.20004948E-08	7.12028438E-10	3.97126860E-05	-3.59562691E-09	*AMF 375				
1057-	*AMF 375	-1.5054888E-08	-1.34334077E-09	1.10244771E-04	-4.56654625E-08	*AMF 376				
1058-	*AMF 376	-2.72476278E-08	-3.01815284E-09	3.53509058E-04	-4.84205174E-08	*AMF 377				
1059-	*AMF 377	-4.17973034E-08	-6.09107786E-09	1.10313875E-03	-3.79036393E-08	*AMF 378				
1060-	*AMF 378	-4.19404458E-09	-6.97967682E-09	1.74034201E-03	-3.90579233E-08	*AMF 379				
1061-	*AMF 379	-5.89914428E-10	-1.08279714E-08	4.56614047E-03	-2.88869389E-08	*AMF 380				
1062-	*AMF 380	-1.08921995E-07	-1.74985503E-08	2.09160207E-02	-2.08298907E-08	*AMF 381				
1063-	*AMF 381	-3.7161545E-08	-6.94537050E-09	3.44815175E-03	-1.30425093E-08	*AMF 382				
1064-	*AMF 382	-1.06584356E-08	-1.57746260E-09	2.30406979E-04	-3.67908126E-09	*AMF 383				
1065-	*AMF 383	-9.10369113E-10	-3.32129051E-11	9.26412497E-07		*AMF 384				
1066-	DMI	*MFLD 49								
1067-	*AMF 385	-3.88552976E-08	2.33691039E-08	-1.45959262E-08	8.02373290E-02	*AMF 385				
1068-	*AMF 386	-6.89204285E-08	4.79725450E-09	-2.29503812E-08	1.43884778E-01	*AMF 386				
1069-	*AMF 387	-6.39450158E-08	3.93991843E-09	-2.48321044E-09	1.79263532E-01	*AMF 387				
1070-	*AMF 388	-9.35246653E-08	4.78611746E-08	-3.35693359E-08	1.90390766E-01	*AMF 388				
1071-	*AMF 389	-1.02284389E-07	4.81399714E-09	-3.12543217E-08	1.50333166E-01	*AMF 389				
1072-	*AMF 390	-7.4441914CE-08	4.91717422E-08	-3.1492503E-08	1.57236695E-01	*AMF 390				
1073-	*AMF 391	-6.87157712E-08	5.04940054E-08	-2.76442117E-08	1.39764489E-01	*AMF 391				
1074-	*AMF 392	-7.04886247E-09	5.14371256E-08	-2.08298907E-08	1.16237521E-01	*AMF 392				
1075-	*AMF 393	-4.54548251E-08	3.15936504E-08	-1.49913362E-08	5.95711507E-02	*AMF 393				
1076-	*AMF 394	-1.94674143E-08	2.02312407E-08	-1.65176779E-09	1.65934972E-02	*AMF 394				
1077-	*AMF 395	-4.64261872E-09	5.36557470E-09	-4.14190282E-09		*AMF 395				
1078-	DMI	*MFLC 50								
1079-	*AMF 397	8.1683692E-04	-9.666346336E-10	-2.23567094E-09	-3.95034476E-08	*AMF 397				
1080-	*AMF 398	1.99309557E-03	-2.42266029E-07	-5.45288707E-09	-7.08240577E-08	*AMF 398				
1081-	*AMF 399	2.62935832E-03	-1.35066880E-07	-6.96735469E-09	-8.75492105E-08	*AMF 399				
1082-	*AMF 400	4.42845695E-03	-4.894073226E-09	-1.22400863E-08	-9.16047611E-08	*AMF 400				
1083-	*AMF 401	6.74488395E-03	-6.68363853E-07	-1.92913790E-08	-7.14515025E-08	*AMF 401				
1084-	*AMF 402	6.03908910E-03	-8.14114807E-07	-1.41272811E-08	-7.42101970E-08	*AMF 402				
1085-	*AMF 403	8.94172971E-03	-8.21561701E-07	-2.44016548E-08	-6.53043099E-08	*AMF 403				
1086-	*AMF 404	1.31673254E-02	-1.34817241E-07	-3.71651545E-08	-4.94548651E-08	*AMF 404				
1087-	*AMF 405	1.92134865E-02	-9.34330010E-09	-5.36626743E-08	-2.77809953E-08	*AMF 405				
1088-	*AMF 406	4.26496985E-03	-2.55699374E-09	-9.84580950E-09	-8.06666378E-09	*AMF 406				
1089-	*AMF 407	3.45005917E-04	-3.18347687E-10	-8.39723180E-10		*AMF 407				
1090-	DMI	*MFLC 51								
1091-	*AMF 409	-5.64622166E-10	3.333310600E-05	-6.39418379E-11	2.57716586E-08	*AMF 408				
1092-	*AMF 410	-2.25807864E-09	1.31603214E-04	-2.48639997E-10	4.61987852E-08	*AMF 410				
1093-	*AMF 411	-2.54587554E-09	2.49649398E-04	-4.52803794E-10	4.52832261E-08	*AMF 411				
1094-	*AMF 412	-4.90227592E-09	5.34040150E-04	-1.09358444E-09	6.07019501E-08	*AMF 412				
1095-	*AMF 413	-7.05274061E-09	1.24706281E-03	-2.13578841E-09	4.80682445E-08	*AMF 413				
1096-	*AMF 414	-6.56599042E-09	1.52613828E-03	-2.51198529E-09	4.97054664E-08	*AMF 414				
1097-	*AMF 415	-8.2815955E-09	2.72328381E-03	-3.48543552E-09	4.22631450E-08	*AMF 415				
1098-	*AMF 416	-5.73955418E-09	6.93764719E-03	-6.94437059E-09	3.15936504E-08	*AMF 416				
1099-	*AMF 417	-9.8473901CE-09	1.45373771E-02	-9.63540359E-09	1.85176070E-08	*AMF 417				
1100-	*AMF 418	-2.91673892E-09	1.50552299E-03	-1.17207621E-09	5.32030454E-09	*AMF 418				

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1101	*AMF	419	-4.01757072E-10	2.35450300E-05	-3.39990119E-11					
1102	DMI									
1103	*MFLD									
1104	*AMF	421	-2.22585541E-09	-6.16112968E-11	1.05410618E-06					
1105	*AMF	422	-5.44170220E-09	-2.44512632E-10	7.95273800E-06					
1106	*AMF	423	-7.18258519E-09	-4.53194815E-10	2.19494104E-05					
1107	*AMF	424	-1.22552461E-09	-1.32954845E-09	6.97666401E-05					
1108	*AMF	425	-1.84242923E-09	-2.19483853E-09	2.15378110E-04					
1109	*AMF	426	-1.81126651E-09	-2.15121070E-09	3.26447410E-04					
1110	*AMF	427	-2.44538576E-09	-3.94836519E-09	8.29478493E-04					
1111	*AMF	428	-3.60762442E-09	-6.95429581E-09	3.44815175E-03					
1112	*AMF	429	-5.36626742E-09	-9.53540359E-09	1.02085583E-02					
1113	*AMF	430	-1.14732566E-09	-2.21125940E-09	4.87286777E-04					
1114	*AMF	431	-5.52437240E-10	-5.50905294E-11	1.79082509E-06					
1115	DMI									
1116	*MFLD									
1117	*AMF	433	-2.37181546E-08	1.36033513E-08	-8.87232687E-09					
1118	*AMF	434	-4.21210480E-09	2.11739148E-08	-1.39472078E-09					
1119	*AMF	435	-3.88419556E-09	2.39662583E-08	-1.50818060E-08					
1120	*AMF	436	-5.72598928E-09	2.91214981E-08	-2.03677040E-09					
1121	*AMF	437	-6.25564740E-09	2.93122469E-09	-1.89414600E-08					
1122	*AMF	438	-4.5557716E-09	2.8655216E-09	-1.90147382E-08					
1123	*AMF	439	-4.21239932E-08	3.06580610E-09	-1.67546581E-08					
1124	*AMF	440	-4.24027142E-08	3.09274029E-09	-1.30425051E-08					
1125	*AMF	441	-2.77869933E-08	1.85176070E-08	-1.03414699E-08					
1126	*AMF	442	-1.56546025E-08	1.55091425E-08	-1.34648381E-08					
1127	*AMF	443	-3.74588316E-09	4.94911134E-09	-3.45067219E-09					
1128	DMI									
1129	*MFLD									
1130	*AMF	445	2.62829017E-04	-3.18831184E-10	-7.22054860E-10					
1131	*AMF	446	6.42279636E-04	-8.09393574E-10	-1.75963133E-09					
1132	*AMF	447	8.47022049E-04	-1.03278030E-09	-2.25361152E-09					
1133	*AMF	448	1.44081472E-03	-1.68324807E-09	-3.92647337E-09					
1134	*AMF	449	2.14907899E-03	-2.37547115E-09	-6.13811475E-09					
1135	*AMF	450	2.09199955E-03	-2.36726794E-09	-5.77018506E-09					
1136	*AMF	451	2.77568330E-03	-3.05215608E-09	-7.40749413E-09					
1137	*AMF	452	3.83357148E-03	-4.14600001E-09	-1.06084350E-09					
1138	*AMF	453	4.20426985E-03	-3.91671891E-09	-1.14732508E-09					
1139	*AMF	454	5.77132042E-03	-4.39773548E-09	-2.26942549E-09					
1140	*AMF	455	5.91920685E-04	-5.19720933E-10	-1.42372714E-09					
1141	DMI									
1142	*MFLD									
1143	*AMF	457	-2.56703991E-10	5.08826543E-06	-9.95774557E-12					
1144	*AMF	458	-6.17527363E-10	2.00884899E-05	-3.94244359E-11					
1145	*AMF	459	-7.66805559E-10	3.81000710E-05	-7.31965780E-11					
1146	*AMF	460	-1.34101664E-09	8.90933016E-05	-1.73705834E-10					
1147	*AMF	461	-1.55150140E-09	1.90035018E-04	-3.65947050E-10					
1148	*AMF	462	-1.84310012E-09	2.31510721E-04	-4.41630066E-10					
1149	*AMF	463	-2.35376440E-09	4.08952590E-04	-7.29233118E-10					
1150	*AMF	464	-2.85700463E-09	5.70886169E-04	-1.577463260E-09					
1151	*AMF	465	-2.05699374E-09	1.30592290E-03	-2.21125740E-09					
1152	*AMF	466	-4.09773548E-09	6.95790350E-03	-1.26325461E-09					
1153	*AMF	467	-5.16372722E-10	8.77554994E-05	-9.41036415E-11					
1154	DMI									
1155	*MFLD									

ORIGINAL PAGE IS
OF POOR QUALITY

SORTED BULK DAY ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
1151-	*AMF 469	-6.14105655E-10	-6.61268698E-12	4.73843684E-08	-2.46325058E-08	*AMF 470					
1152-	*AMF 470	-1.49737978E-09	-2.58035399E-11	3.57091498E-07	-2.41408102E-08	*AMF 471					
1153-	*AMF 471	-1.57180027E-09	-4.34539492E-11	9.04825419E-07	-3.06111616E-08	*AMF 472					
1154-	*AMF 472	-3.35408344E-09	-1.11930125E-10	3.12051543E-06	-3.23908793E-08	*AMF 473					
1155-	*AMF 473	-5.00332575E-09	-2.34710251E-10	9.53850899E-06	-2.54653081E-08	*AMF 474					
1156-	*AMF 474	-4.87000702E-09	-2.80919288E-10	1.41173559E-05	-2.64237592E-09	*AMF 475					
1157-	*AMF 475	-6.46045351E-09	-4.75950834E-10	3.67109751E-05	-2.26521294E-08	*AMF 476					
1158-	*AMF 476	-8.92220076E-09	-9.10606035E-10	2.30406979E-04	-1.65176779E-08	*AMF 477					
1159-	*AMF 477	-5.84580950E-09	-1.17207621E-09	4.87204777E-04	-1.34648381E-08	*AMF 478					
1160-	*AMF 478	-2.26942589E-08	-1.26325461E-09	5.15867986E-03	-3.89532314E-09	*AMF 479					
1161-	*AMF 479	-1.37655531E-09	-9.91469941E-11	1.03454958E-05	*AMF 480						
1162-	DMI	*MFLC	57	17	1.36823319E-02	*AMF 481					
1163-	*AMF 481	-6.67433397E-09	3.91682952E-09	-2.48904386E-09	2.45257391E-02	*AMF 482					
1164-	*AMF 482	-1.18663155E-08	8.18649326E-09	-3.91272437E-09	2.40357630E-02	*AMF 483					
1165-	*AMF 483	-1.05618661E-09	6.72729428E-09	-4.23095519E-09	3.04769464E-02	*AMF 484					
1166-	*AMF 484	-1.61736682E-08	8.17850076E-09	-5.71368375E-09	3.22471745E-02	*AMF 485					
1167-	*AMF 485	-1.77236288E-09	8.21181338E-09	-5.31363349E-09	2.53529021E-02	*AMF 486					
1168-	*AMF 486	-1.29456157E-09	8.40017478E-09	-5.33387379E-09	2.63085254E-02	*AMF 487					
1169-	*AMF 487	-1.20244614E-09	8.53915517E-09	-4.70138772E-09	2.26350315E-02	*AMF 488					
1170-	*AMF 488	-1.21701191E-09	8.76577388E-09	-3.67908126E-09	1.65934972E-02	*AMF 489					
1171-	*AMF 489	-8.06666378E-09	5.32098454E-09	-2.93798363E-09	1.38386935E-02	*AMF 490					
1172-	*AMF 490	-4.62958472E-09	4.91361795E-09	-3.89532318E-09	6.31405786E-03	*AMF 491					
1173-	*AMF 491	-1.54952255E-09	2.22508767E-09	-1.56711200E-09	*AMF 492						
1174-	DMI	*MFLC	58	17	-3.94229716E-09	*AMF 493					
1175-	*AMF 493	2.26127158E-05	-2.75938994E-11	-6.18866763E-11	-7.06620540E-09	*AMF 494					
1176-	*AMF 494	5.51226375E-05	-7.03365144E-11	-1.50809615E-10	-6.91245106E-09	*AMF 495					
1177-	*AMF 495	7.25853024E-05	-9.04990805E-11	-1.92265218E-10	-8.76195118E-09	*AMF 496					
1178-	*AMF 496	1.23442864E-04	-1.48873192E-10	-3.36398909E-10	-9.23344956E-09	*AMF 497					
1179-	*AMF 497	1.84029137E-04	-2.13350387E-10	-5.25636648E-10	-7.24679339E-09	*AMF 498					
1180-	*AMF 498	1.75022070E-04	-2.14674806E-10	-4.93805210E-10	-7.49671258E-09	*AMF 499					
1181-	*AMF 499	2.37225700E-04	-2.83045809E-10	-6.33116670E-10	-6.43795772E-09	*AMF 500					
1182-	*AMF 500	3.26184785E-04	-4.03304429E-10	-9.10369113E-10	-4.64261873E-09	*AMF 501					
1183-	*AMF 501	3.45005917E-04	-4.01757072E-10	-9.52437240E-10	-3.74088310E-09	*AMF 502					
1184-	*AMF 502	7.91923101E-04	-5.18172733E-10	-1.31655318E-09	-1.54084224E-09	*AMF 503					
1185-	*AMF 503	5.31284371E-04	-4.30362190E-10	-1.274992374E-09	*AMF 504						
1186-	DMI	*MFLC	59	17	4.92929796E-09	*AMF 505					
1187-	*AMF 505	-2.24502500E-11	1.04769924E-07	-2.07032958E-13	8.83577300E-09	*AMF 506					
1188-	*AMF 506	-5.45624934E-11	4.13636940E-07	-8.22092665E-13	8.65914629E-09	*AMF 507					
1189-	*AMF 507	-7.15590642E-11	7.84471183E-07	-1.53274268E-12	1.09790825E-08	*AMF 508					
1190-	*AMF 508	-1.21204905E-10	1.93414077E-06	-3.78140574E-12	1.16161907E-08	*AMF 509					
1191-	*AMF 509	-1.75821602E-10	3.91203594E-06	-7.77896410E-12	9.13310672E-09	*AMF 510					
1192-	*AMF 510	-1.72767531E-10	4.76358309E-06	-9.44957394E-12	9.47564160E-09	*AMF 511					
1193-	*AMF 511	-2.28371574E-10	8.40296880E-06	-1.59229574E-11	8.14641865E-09	*AMF 512					
1194-	*AMF 512	-3.05420356E-10	2.01707153E-05	-3.82129751E-11	5.96557470E-09	*AMF 513					
1195-	*AMF 513	-3.18340687E-10	2.95450300E-05	-5.50905294E-11	4.94911134E-09	*AMF 514					
1196-	*AMF 514	-5.15720933E-10	8.77554994E-05	-9.50140094E-11	2.22508767E-09	*AMF 515					
1197-	*AMF 515	-4.30362190E-10	1.24267157E-04	-1.16118705E-10	*AMF 516						
1198-	DMI	*MFLC	60	17	-3.41605655E-09	*AMF 517					
1199-	*AMF 517	-5.43918244E-11	-1.31680962E-13	1.70598827E-10	-6.12331878E-09	*AMF 518					
1200-	*AMF 518	-1.32615308E-10	-5.17105253E-13	1.28512312E-09	-6.00098460E-09	*AMF 519					

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
1201	*AMF 519	-1.74557475E-10	-9.77044834E-13	3.54329699E-09	-7.60914531E-09	*AMF 520				
1202	*AMF 520	-2.96931146E-10	-2.27803540E-12	1.12147021E-08	-8.05110645E-09	*AMF 521				
1203	*AMF 521	-4.42669675E-10	-4.34187430E-12	3.41575372E-08	-6.32978470E-09	*AMF 522				
1204	*AMF 522	-4.30625313E-10	-5.97816341E-12	5.01115096E-08	-6.56836363E-09	*AMF 523				
1205	*AMF 523	-5.76626879E-10	-1.02938933E-11	1.31430738E-07	-5.65076514E-09	*AMF 524				
1206	*AMF 524	-7.64649901E-10	-2.3714847E-11	9.26412497E-07	-4.14190282E-09	*AMF 525				
1207	*AMF 525	-6.35723180E-10	-2.39990119E-11	1.79042508E-06	-3.45067219E-09	*AMF 526				
1208	*AMF 526	-1.42372714E-09	-9.41036415E-11	1.03454895E-05	-1.56711200E-09	*AMF 527				
1209	*AMF 527	-1.2749278E-09	-1.16318705E-10	2.5053588E-05	*AMF 528					
1210	*MFLC			85	1.10990047E-01	*AMF 529				
1211	*AMF 529	-4.21801436E-08	-2.30300760E-09	-7.66209141E-09	1.19999521E-01	*AMF 530				
1212	*AMF 530	-5.91455738E-08	3.78323861E-08	-2.14871108E-08	1.19519413E-01	*AMF 531				
1213	*AMF 531	-5.65346777E-08	3.94502884E-08	-1.07337258E-08	1.19499981E-01	*AMF 532				
1214	*AMF 532	-6.02372651E-08	3.88276682E-08	-2.07045820E-08	8.33041601E-02	*AMF 533				
1215	*AMF 533	-4.27222391E-08	2.78155632E-08	-1.54645434E-08	4.90845889E-02	*AMF 534				
1216	*AMF 534	-2.5160257E-08	1.43728194E-08	-9.34655920E-09	6.15712553E-02	*AMF 535				
1217	*AMF 535	-3.17995301E-08	2.01364259E-08	-1.06780079E-08	4.49862964E-02	*AMF 536				
1218	*AMF 536	-2.23183832E-08	1.24570327E-08	-7.34058148E-09	2.72853412E-02	*AMF 537				
1219	*AMF 537	-1.22757484E-08	8.10435807E-09	-5.34357270E-09	2.61024237E-02	*AMF 538				
1220	*AMF 538	-1.41714561E-08	6.65346889E-09	-4.5539192E-09	1.23995692E-02	*AMF 539				
1221	*AMF 539	-6.04721961E-09	3.59977705E-09	-2.58110711E-09	*AMF 540					
1222	*MFLC			86	-4.21801438E-08	*AMF 541				
1223	*AMF 541	3.25014249E-02	-1.76966779E-08	-9.23996542E-08	-5.69427208E-08	*AMF 542				
1224	*AMF 542	5.26887551E-03	-6.29664854E-09	-1.41663925E-08	-8.5070765E-08	*AMF 543				
1225	*AMF 543	6.8550256E-04	-7.32378162E-10	-1.90760974E-09	-5.87319029E-08	*AMF 544				
1226	*AMF 544	8.76815857E-05	-1.18088192E-10	-2.32776659E-10	-4.09660394E-08	*AMF 545				
1227	*AMF 545	8.76717765E-06	-9.3509849E-12	-2.43436650E-11	-2.41381066E-08	*AMF 546				
1228	*AMF 546	2.25725447E-06	-2.72581437E-12	-6.17906254E-12	-3.02792778E-08	*AMF 547				
1229	*AMF 547	1.28012016E-06	-1.53419898E-12	-2.50364009E-12	-2.21234018E-08	*AMF 548				
1230	*AMF 548	3.77952176E-07	-4.72911424E-13	-1.00787434E-12	-1.34184042E-08	*AMF 549				
1231	*AMF 549	1.90437561E-07	-2.37673132E-13	-5.46309905E-13	-1.28367077E-08	*AMF 550				
1232	*AMF 550	1.10556357E-07	-1.37193479E-13	-3.00847997E-13	-6.09790263E-09	*AMF 551				
1233	*AMF 551	2.20784103E-08	-2.94997829E-14	-6.18741169E-14	*AMF 552					
1234	*MFLC			87	8.80790780E-09	*AMF 553				
1235	*AMF 553	-1.76566775E-08	2.30245739E-02	-1.82510647E-08	3.66150615E-08	*AMF 554				
1236	*AMF 554	-6.28590742E-09	2.14472253E-04	-1.87575937E-09	3.98046431E-08	*AMF 555				
1237	*AMF 555	-7.62196528E-10	8.13265835E-05	7.15717608E-11	3.98354807E-08	*AMF 556				
1238	*AMF 556	-1.1604169CE-10	-9.39079746E-06	-2.06788614E-11	2.77680385E-08	*AMF 557				
1239	*AMF 557	-9.70936435E-12	1.34006085E-06	3.61412636E-12	1.63604322E-08	*AMF 558				
1240	*AMF 558	-2.62765504E-12	1.31470008E-07	9.40841914E-14	2.05237677E-08	*AMF 559				
1241	*AMF 559	-1.57670063E-12	6.46339231E-04	-3.54147897E-14	1.49949497E-08	*AMF 560				
1242	*AMF 560	-4.61147078E-13	8.55937180E-09	-1.62246044E-14	9.09481912E-09	*AMF 561				
1243	*AMF 561	-2.23496707E-13	3.55264184E-09	-7.97254242E-15	8.70052830E-09	*AMF 562				
1244	*AMF 562	-1.3956682E-13	1.13291804E-09	-3.91459326E-15	4.13305656E-09	*AMF 563				
1245	*AMF 563	-2.05527316E-14	4.31160802E-11	-9.169502689E-16	*AMF 564					
1246	*MFLC			88	-7.66209141E-09	*AMF 565				
1247	*AMF 565	-9.28996542E-08	-1.02510647E-08	1.63405836E-02	-1.85557226E-08	*AMF 566				
1248	*AMF 566	-1.42000989E-08	-1.87278193E-04	-8.92708311E-04	-1.79294517E-08	*AMF 567				
1249	*AMF 567	-1.50755212E-09	7.31351923E-11	1.44078618E-04	-1.80198008E-08	*AMF 568				
1250	*AMF 568	-2.34791075E-10	-2.07378223E-11	-2.304241613E-04	-1.25510553E-08	*AMF 569				

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COUNT	1	2	3	4	5	6	7	8	9	10
1251	*AMF	569	-2.46623139E-11	3.49567163E-12	3.43904594E-06	-7.39594697E-09	*AMF	570		
1252	*AMF	570	-6.33936392E-12	1.04148840E-13	2.91075708E-07	-9.27759913E-09	*AMF	571		
1253	*AMF	571	-3.50489082E-12	-2.96292735E-14	5.98943757E-08	-6.77859191E-09	*AMF	572		
1254	*AMF	572	-1.03087591E-12	-1.52655768E-14	2.11243267E-09	-4.11138856E-09	*AMF	573		
1255	*AMF	573	-5.19127005E-13	-7.41677295E-15	4.71042316E-10	-3.93314536E-09	*AMF	574		
1256	*AMF	574	-2.00264754E-13	-3.40285386E-15	-9.81833087E-11	-1.06838300E-09	*AMF	575		
1257	*AMF	575	-6.41672346E-14	-6.52249251E-16	-1.53741044E-11		*AMF	576		
1258	DMI		*MFLC	89	85					
1259	*AMF	577	-5.69427208E-08	3.99150615E-08	-1.85553226E-08	1.19999528E-01	*AMF	577		
1260	*AMF	578	-2.41927239E-07	1.50642279E-07	-1.82019924E-08	5.22866380E-01	*AMF	578		
1261	*AMF	579	-2.44603357E-07	1.64957839E-07	-8.25501161E-08	4.94519293E-01	*AMF	579		
1262	*AMF	580	-2.48214405E-07	1.60126149E-07	-8.52594484E-08	4.93000507E-01	*AMF	580		
1263	*AMF	581	-1.76240064E-07	1.14740146E-07	-6.39087272E-08	3.43633831E-01	*AMF	581		
1264	*AMF	582	-1.03551258E-07	5.91210672E-08	-3.85544066E-09	2.02464402E-01	*AMF	582		
1265	*AMF	583	-1.31163062E-07	8.30589215E-08	-4.40449561E-08	1.85559154E-01	*AMF	583		
1266	*AMF	584	-9.20452576E-08	5.13827345E-08	-3.02783967E-08	1.12546384E-01	*AMF	584		
1267	*AMF	585	-5.06344387E-08	3.34208295E-08	-2.20411458E-08	1.07667089E-01	*AMF	585		
1268	*AMF	586	-5.64540203E-09	2.74441874E-09	-1.89022511E-08	1.07667089E-01	*AMF	586		
1269	*AMF	587	-2.49434677E-09	1.49442076E-08	-1.66465308E-08	5.11456542E-02	*AMF	587		
1270	DMI		*MFLC	90	85					
1271	*AMF	589	5.26887551E-03	-6.22530743E-09	-1.43000989E-08	-5.91455738E-00	*AMF	588		
1272	*AMF	590	6.21655583E-02	-3.87406659E-08	-1.72183832E-07	-2.41927239E-07	*AMF	589		
1273	*AMF	591	7.54402578E-02	-9.28747212E-09	-2.04605577E-08	-2.48962749E-07	*AMF	590		
1274	*AMF	592	5.55789583E-04	-1.09175069E-09	-2.62136064E-09	-2.50752407E-07	*AMF	591		
1275	*AMF	593	5.57088341E-05	-1.27310315E-10	-2.55705457E-10	-1.75019011E-07	*AMF	592		
1276	*AMF	594	2.45672739E-05	-3.3330745E-11	-6.63812200E-11	-1.03132095E-07	*AMF	593		
1277	*AMF	595	1.36598594E-05	-1.78592280E-11	-3.79127146E-11	-1.29374826E-07	*AMF	594		
1278	*AMF	596	4.10285247E-06	-5.26108324E-12	-1.09588640E-11	-9.45283887E-08	*AMF	595		
1279	*AMF	597	2.06714139E-06	-2.51478526E-12	-5.94600497E-12	-5.73338568E-08	*AMF	596		
1280	*AMF	598	1.15992815E-06	-1.49997134E-12	-3.2828403E-12	-5.48486341E-08	*AMF	597		
1281	*AMF	599	2.48316456E-07	-3.09382186E-13	-6.79961729E-13	-2.60552078E-08	*AMF	598		
1282	DMI		*MFLD	91	85					
1283	*AMF	601	-6.25664854E-09	2.14472253E-04	-1.87278193E-09	3.78323861E-08	*AMF	601		
1284	*AMF	602	-3.87406659E-09	3.74060906E-02	-3.29082299E-04	1.50642279E-07	*AMF	602		
1285	*AMF	603	-9.1709041E-09	1.46620579E-04	-2.05876005E-09	1.55731243E-07	*AMF	603		
1286	*AMF	604	-1.067383E-09	1.11468209E-04	6.9306305E-11	1.08580991E-07	*AMF	604		
1287	*AMF	605	-1.27212576E-10	-8.86682665E-06	-1.90022442E-11	6.39727205E-08	*AMF	605		
1288	*AMF	606	-3.25240390E-11	-1.66949030E-06	2.02273799E-13	8.02460249E-08	*AMF	606		
1289	*AMF	607	-1.77303311E-11	-5.69178667E-07	4.97855500E-13	5.86306115E-08	*AMF	607		
1290	*AMF	608	-5.17096655E-12	-7.55959112E-08	1.19739396E-13	3.55609591E-08	*AMF	608		
1291	*AMF	609	-2.59969477E-12	-3.14107015E-08	4.94124361E-14	3.40192550E-09	*AMF	609		
1292	*AMF	610	-1.50828850E-12	-1.31642605E-08	1.49080272E-14	1.61603353E-08	*AMF	610		
1293	*AMF	611	-3.14013297E-13	-3.81521925E-10	-2.46313136E-15		*AMF	611		
1294	DMI		*MFLC	92	85					
1295	*AMF	613	-1.41663925E-08	-1.89575758E-09	-8.92703811E-04	-2.14871108E-08	*AMF	612		
1296	*AMF	614	-1.72183832E-07	-3.29982299E-08	2.50717121E-02	-7.02019924E-08	*AMF	613		
1297	*AMF	615	-2.02446362E-08	-2.09996798E-09	-1.09075463E-03	-8.71268639E-08	*AMF	614		
1298	*AMF	616	-2.62405764E-09	7.12849640E-11	1.76904506E-04	-6.01259559E-08	*AMF	615		
1299	*AMF	617	-2.56046561E-10	-1.88404570E-11	-2.25027034E-05	-3.54191485E-08	*AMF	616		
1300	*AMF	618	-6.74713341E-11	8.12483761E-14	-1.92699463E-06	-4.44280879E-08	*AMF	617		

SORTED BULK DATA ECHD

CARD COUNT	1	2	3	4	5	6	7	8	9	10
1301-	*AMF 619	-3.77154002E-11	4.45295439E-13	-3.94021470E-07	-3.24606617E-08	*AMF 620				
1302-	*AMF 620	-1.11362300E-11	1.16619388E-13	-1.41816656E-08	-1.96882191E-08	*AMF 621				
1303-	*AMF 621	-5.61057349E-12	5.05918481E-14	3.24659521E-09	-1.88346618E-08	*AMF 622				
1304-	*AMF 622	-3.25213207E-12	1.61591727E-14	5.95179968E-10	-8.94712571E-09	*AMF 623				
1305-	*AMF 623	-6.770751540E-13	1.68464583E-15	9.72937564E-11		*AMF 624				
1306-	*MFLD		93		85					
1307-	*AMF 625	-5.85670765E-08	3.98046431E-08	-1.79294517E-09	1.19519413E-01	*AMF 625				
1308-	*AMF 626	-2.48962745E-07	1.56190993E-07	-8.71268639E-09	8.67724350E-01	*AMF 626				
1309-	*AMF 627	-4.12212785E-07	2.73050276E-07	-1.29475950E-07	8.34789574E-01	*AMF 628				
1310-	*AMF 628	-4.18062314E-07	2.71208592E-07	-1.45210151E-07	5.80755532E-01	*AMF 629				
1311-	*AMF 629	-2.57628560E-07	1.33875564E-07	-1.07739027E-07	3.442133164E-01	*AMF 630				
1312-	*AMF 630	-1.74926011E-07	9.98982728E-08	-6.51419896E-08	4.29155171E-01	*AMF 631				
1313-	*AMF 631	-1.21686058E-07	1.40350267E-07	-7.44251452E-09	3.1355483E-01	*AMF 632				
1314-	*AMF 632	-1.55527061E-07	8.64253665E-08	-5.11638767E-08	1.90178871E-01	*AMF 633				
1315-	*AMF 633	-6.5562803E-08	5.64873233E-08	-3.72447282E-08	1.81933761E-01	*AMF 634				
1315-	*AMF 634	-5.87716362E-08	4.63746197E-08	-3.17717017E-08	8.64248276E-02	*AMF 635				
1317-	*AMF 635	-4.21483826E-09	2.50834411E-09	-1.79902919E-08		*AMF 636				
1317-	*MFLD		94		85					
1318-	*AMF 637	6.85506298E-04	-7.62196528E-10	-1.90755212E-09	-5.99346777E-08	*AMF 637				
1320-	*AMF 638	7.54402578E-03	-9.17099641E-09	-2.03446362E-08	-2.46093578E-07	*AMF 638				
1321-	*AMF 639	6.31919962E-02	-4.14820944E-08	-1.76356991E-07	-4.17382751E-07	*AMF 639				
1322-	*AMF 640	7.34279328E-01	-9.13402332E-09	-1.97219627E-08	-2.92187337E-07	*AMF 641				
1323-	*AMF 641	7.23913155E-04	-8.24954926E-10	-2.60433470E-09	-1.72234309E-07	*AMF 642				
1324-	*AMF 642	1.91509767E-04	-2.24147945E-10	-5.13075804E-10	-2.16097476E-07	*AMF 643				
1325-	*AMF 643	1.06855905E-04	-1.27696381E-10	-2.91820568E-10	-1.57005561E-07	*AMF 644				
1325-	*AMF 644	3.14859208E-05	-3.20153044E-11	-8.42214631E-11	-9.57737332E-09	*AMF 645				
1327-	*AMF 645	1.56639741E-05	-1.86995280E-11	-4.57060362E-11	-9.16242584E-08	*AMF 646				
1329-	*AMF 646	5.26886765E-06	-1.11921080E-11	-2.52314142E-11	-4.35261036E-08	*AMF 647				
1329-	*AMF 647	1.50567571E-06	-2.3228494E-12	-5.25068617E-11		*AMF 648				
1330-	*MFLD		95		85					
1331-	*AMF 649	-7.82378162E-10	8.18265835E-05	7.31351923E-11	3.480502884E-03	*AMF 649				
1332-	*AMF 650	-9.28747212E-09	1.46520572E-04	-2.67096798E-09	3.64957839E-07	*AMF 650				
1333-	*AMF 651	-4.14825548E-08	3.78977740E-02	-3.24580121E-08	2.73850276E-07	*AMF 651				
1334-	*AMF 652	-9.1340407E-09	9.1147066E-06	-1.98816990E-09	2.70555547E-07	*AMF 652				
1335-	*AMF 653	-6.34589731E-10	8.20091747E-05	7.08124670E-11	1.03752781E-07	*AMF 653				
1335-	*AMF 654	-2.25392038E-10	1.43072175E-05	-7.70946130E-12	1.43201644E-07	*AMF 654				
1337-	*AMF 655	-1.29170397E-10	4.69353036E-06	-5.35232362E-12	1.04429066E-07	*AMF 655				
1338-	*AMF 656	-3.88200593E-11	6.18402954E-07	-1.10045046E-12	6.34602202E-08	*AMF 657				
1339-	*AMF 657	-1.5621040E-11	2.54736449E-07	-4.71456207E-13	6.07089419E-08	*AMF 658				
1340-	*AMF 658	-1.14839813E-11	8.03248688E-09	-1.72236198E-13	2.86389046E-08	*AMF 659				
1341-	*AMF 659	-2.39469122E-12	3.08666873E-09	-1.28683515E-14		*AMF 660				
1342-	*MFLD		96		85					
1343-	*AMF 661	-1.50760074E-09	7.15737608E-11	1.40679618E-04	-1.97337258E-08	*AMF 661				
1344-	*AMF 662	-2.04605577E-08	-2.05076005E-09	-1.08905463E-03	-8.25501161E-08	*AMF 662				
1345-	*AMF 663	-1.76356991E-07	-3.24580121E-08	2.52847485E-02	-1.29475950E-07	*AMF 663				
1345-	*AMF 664	-1.97577315E-08	-1.94831656E-09	-1.17256818E-03	-1.30040078E-07	*AMF 664				
1347-	*AMF 665	-2.02578190E-09	6.51151355E-11	1.41111009E-04	-9.61876481E-08	*AMF 665				
1349-	*AMF 666	-5.25425703E-10	-7.30554679E-12	1.2519462E-05	-5.67048346E-08	*AMF 666				
1349-	*AMF 667	-2.91523150E-10	-5.04441194E-12	2.50938055E-06	-7.11359570E-08	*AMF 667				
1349-	*AMF 668	-8.55610161E-11	-1.06984040E-12	9.8765266E-08	-5.10753307E-08	*AMF 668				
1350-	*AMF 669	-2.91523150E-10	-5.04441194E-12	2.50938055E-06	-7.11359570E-08	*AMF 669				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1351-	*AMF	669	-4.33031927E-11	-4.69361312E-11	2.44886804E-08	-3.01576435E-00	*AMF	670		
1352-	*AMF	670	-2.51281634E-11	-1.70017212E-13	-2.76859491E-09	-1.43259307E-08	*AMF	671		
1353-	*AMF	671	-5.15636764E-12	-1.10831110E-14	-5.23982413E-10					
1354-	DMI	*MFLC	97		85					
1355-	*AMF	673	-5.67319025E-08	3.98354897E-08	-1.80198008E-08					
1355-	*AMF	674	-2.50752407E-07	1.55731243E-07	-8.61423928E-08					
1357-	*AMF	675	-4.17382751E-07	2.79555547E-07	-1.39040878E-07					
1353-	*AMF	676	-5.64042652E-07	3.79498317E-07	-1.95260955E-07					
1353-	*AMF	677	-4.16745515E-07	2.74070487E-07	-1.52929715E-07					
1363-	*AMF	678	-2.46425145E-07	1.41031080E-07	-9.20170464E-08					
1361-	*AMF	679	-3.12443035E-07	1.93063944E-07	-1.05038737E-07					
1362-	*AMF	680	-2.15377600E-07	1.22517747E-07	-7.21964859E-08					
1363-	*AMF	681	-1.20003259E-07	7.97073767E-08	-5.25547605E-08					
1363-	*AMF	682	-1.39246865E-07	6.54367227E-08	-4.48312889E-08					
1363-	*AMF	683	-5.64678156E-08	3.53936223E-04	-2.53849350E-08					
1365-	DMI	*MFLC	98		85					
1367-	*AMF	685	5.70815857E-05	-1.16041690E-10	-2.34791075E-10					
1369-	*AMF	686	5.55785583E-04	-1.06730351E-09	-2.62405764E-09					
1370-	*AMF	687	7.31279328E-03	-9.13808407E-09	-1.97977315E-08					
1370-	*AMF	688	6.33646250E-02	-4.07421190E-08	-1.76099039E-07					
1371-	*AMF	689	5.85955009E-03	-7.02858571E-09	-1.57049556E-08					
1372-	*AMF	690	1.45113692E-03	-1.88130644E-09	-3.96821429E-09					
1373-	*AMF	691	8.21882160E-04	-1.02271303E-09	-2.24360375E-09					
1374-	*AMF	692	2.41915026E-04	-1.04758835E-10	-6.47051074E-10					
1375-	*AMF	693	1.21786055E-04	-1.45618655E-10	-3.50944385E-10					
1375-	*AMF	694	7.06102503E-05	-8.64363719E-11	-1.93566871E-10					
1371-	*AMF	695	1.46143775E-05	-1.77621806E-11	-4.03244521E-11					
1373-	DMI	*MFLC	99		85					
1379-	*AMF	697	-1.18088192E-10	-9.39079746E-06	-2.03978223E-11					
1330-	*AMF	698	-1.06175069E-09	1.11468209E-04	7.12849640E-11					
1391-	*AMF	699	-5.13402232E-09	9.17957865E-06	-1.94031668E-08					
1392-	*AMF	700	-4.07421190E-09	3.79550047E-02	-3.25723449E-08					
1393-	*AMF	701	-7.11639445E-09	2.07493082E-04	-1.86315185E-09					
1340-	*AMF	702	-1.85032465E-09	5.10600421E-06	-1.47186831E-10					
1385-	*AMF	703	-1.0307015E-09	-3.29395112E-06	-2.02111661E-11					
1385-	*AMF	704	-3.03079117E-10	-5.51770557E-07	4.96567644E-14					
1381-	*AMF	705	-1.52600252E-10	-3.00384897E-07	2.69412483E-13					
1392-	*AMF	706	-8.64574775E-11	-1.54075906E-07	2.94853063E-13					
1392-	*AMF	707	-1.82950460E-11	-3.84627086E-09	4.14099500E-15					
1393-	DMI	*MFLC	100		85					
1391-	*AMF	709	-2.32776655E-10	-2.05788614E-11	-2.36241613E-05					
1392-	*AMF	710	-2.62336064E-09	6.93406305E-11	1.76804606E-04					
1393-	*AMF	711	-1.97215627E-08	-1.96810990E-09	-1.17256838E-03					
1394-	*AMF	712	-1.76099039E-07	-3.25723449E-08	-2.42659758E-07					
1395-	*AMF	713	-1.57846145E-08	-1.81881399E-09	-8.76411097E-04					
1395-	*AMF	714	-4.04091236E-09	-1.48068072E-10	-8.32610240E-05					
1397-	*AMF	715	-2.23438090E-09	-2.09658541E-11	-1.63196382E-05					
1394-	*AMF	716	-6.65818195E-10	2.98264767E-14	-6.33008995E-07					
1397-	*AMF	717	-2.31384475E-10	2.86437974E-13	-1.72288883E-07					
1407-	*AMF	718	-1.92126287E-10	2.97913007E-13	4.78508366E-09					
1407-										

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1401-	*AMF	719	-3.9759778E-11	6.3087149E-15	2.95487701E-09					*AMF 720
1402-	DMI		*MFLD	101						
1403-	*AMF	721	-4.05660394E-08	2.77680305E-03	-1.25510553E-08			8.33081603E-02		*AMF 721
1404-	*AMF	722	-1.7501901E-07	1.08580991E-07	-6.01259958E-08			5.60755532E-01		*AMF 722
1405-	*AMF	723	-2.49218733E-07	1.52752783E-07	-9.61876481E-08			8.21061492E-01		*AMF 723
1406-	*AMF	724	-4.11566427E-07	2.66566684E-07	-1.42659758E-07			7.55516874E-01		*AMF 724
1407-	*AMF	725	-3.73667181E-07	2.42510225E-07	-1.31891425E-07			4.35593711E-01		*AMF 725
1408-	*AMF	726	-2.19340450E-07	1.25656811E-07	-8.20970172E-08			5.43552399E-01		*AMF 726
1409-	*AMF	727	-2.47865408E-07	1.77297352E-07	-9.41106644E-08			3.96711290E-01		*AMF 727
1410-	*AMF	728	-1.56239455E-07	1.09791529E-07	-6.47242473E-08			2.40584612E-01		*AMF 728
1411-	*AMF	729	-1.07563842E-07	7.14345550E-08	-4.71137953E-08			2.30114400E-01		*AMF 729
1412-	*AMF	730	-1.24773464E-07	5.86485385E-08	-4.01856681E-08			1.09302938E-01		*AMF 730
1413-	*AMF	731	-5.32735953E-08	3.17231460E-08	-2.27528204E-08			*AMF 731		
1414-	DMI		*MFLC	102						
1415-	*AMF	733	8.7E717765E-06	-9.70936439E-12	-2.46623139E-11			-4.2732391E-08		*AMF 733
1416-	*AMF	734	9.57088341E-05	-1.27212974E-10	-2.56046961E-10			-1.76240064E-07		*AMF 734
1417-	*AMF	735	7.33913155E-04	-8.34597318E-10	-2.02978193E-09			-4.18745515E-07		*AMF 735
1418-	*AMF	736	5.65955009E-03	-7.11534455E-09	-1.57846145E-09			-3.73867181E-07		*AMF 736
1419-	*AMF	737	3.43423486E-02	-2.33014068E-08	-9.55819314E-08			-2.20073332E-07		*AMF 737
1420-	*AMF	738	8.36516917E-03	-7.21446725E-09	-2.26056365E-08			-2.77057950E-07		*AMF 738
1421-	*AMF	739	4.5359170E-03	-4.59950655E-09	-1.24464776E-08			-2.02962497E-07		*AMF 739
1422-	*AMF	740	1.32873119E-03	-1.53725587E-09	-3.55743768E-09			-1.23074074E-07		*AMF 740
1423-	*AMF	741	6.47588232E-04	-7.43115125E-10	-1.92596717E-09			-1.17849366E-07		*AMF 741
1424-	*AMF	742	3.6645364E-04	-4.55106264E-10	-1.05958264E-09			-5.60350124E-08		*AMF 742
1425-	*AMF	743	7.95566801E-05	-9.64771874E-11	-2.20782198E-10			*AMF 743		
1426-	DMI		*MFLC	103						
1427-	*AMF	745	-9.85099849E-12	1.04006085E-06	3.49557163E-12			2.78155632E-08		*AMF 745
1428-	*AMF	746	-1.27310315E-19	-8.96682655E-06	-1.8404570E-11			1.14740146E-07		*AMF 746
1429-	*AMF	747	-8.24899226E-10	8.25093747E-05	6.51151355E-11			1.93875564E-07		*AMF 747
1430-	*AMF	748	-7.02858571E-09	2.07493082E-04	-1.8181399F-09			2.44070487E-07		*AMF 748
1431-	*AMF	749	-2.03014068E-08	2.14821950E-02	-1.02825390E-09			2.42510225E-07		*AMF 749
1432-	*AMF	750	-7.0241341E-09	3.33130080E-03	-4.2439709E-09			1.44140870E-07		*AMF 750
1433-	*AMF	751	-4.67000640E-09	1.01476093E-03	-1.60893045E-09			1.81043731E-07		*AMF 751
1434-	*AMF	752	-1.9108149E-09	1.11420140E-04	-3.91358392E-10			1.32334742E-07		*AMF 752
1435-	*AMF	753	-7.72695969E-10	5.31494634E-05	-9.7249115E-11			8.63086095E-08		*AMF 753
1436-	*AMF	754	-4.64057205E-10	1.58224424E-05	-3.10038245E-11			7.68254722E-08		*AMF 754
1437-	*AMF	755	-9.82628269E-11	6.40203154E-07	-1.28942007E-12			3.64951518E-08		*AMF 755
1438-	DMI		*MFLC	104						
1439-	*AMF	757	-2.42436660E-11	3.61412630E-12	3.43904594E-06			-1.54045434E-09		*AMF 757
1440-	*AMF	758	-2.55705457E-10	-1.0022442E-11	-2.25027034E-05			-6.38087272E-08		*AMF 758
1441-	*AMF	759	-2.06433470E-09	7.08124670E-11	1.41181098E-04			-1.07739027E-07		*AMF 759
1442-	*AMF	760	-1.57049556E-08	-1.85315105E-09	-8.76411097E-04			-1.52929715E-07		*AMF 760
1443-	*AMF	761	-9.55819814E-08	-1.48829539E-08	1.52279809E-02			-1.31891625E-07		*AMF 761
1444-	*AMF	762	-2.25062920E-08	-4.11298031E-09	1.50713162E-01			-7.99406895E-08		*AMF 762
1445-	*AMF	763	-1.22917321E-08	-1.55070512E-09	2.76346924E-04			-1.03747400E-07		*AMF 763
1446-	*AMF	764	-3.59236707E-09	-2.36816784E-10	1.52885766E-05			-7.36453377E-08		*AMF 764
1447-	*AMF	765	-1.80409749E-09	-9.81958281E-11	4.37548897E-06			-4.46614729E-08		*AMF 765
1448-	*AMF	766	-1.04421161E-09	-3.14634430E-11	-3.08611654E-09			-4.27215454E-08		*AMF 766
1449-	*AMF	767	-2.16129572E-10	-1.10506131E-12	-1.78231246E-09			-2.02924751E-08		*AMF 767
1450-	DMI		*MFLC	105						
1451-	*AMF	769			4.90845449E-02			*AMF 769		

S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
1451-	*AMF	769	-2.41381066E-08	1.63609322E-08	-7.39524697E-09	2.02464402E-08	*AMF	770		
1452-	*AMF	770	-1.03132095E-07	6.39727205E-08	-3.54191485E-08	3.42133164E-08	*AMF	771		
1453-	*AMF	771	-1.72234369E-07	1.14160002E-07	-5.67048346E-08	4.82982993E-08	*AMF	772		
1454-	*AMF	772	-2.42937631E-07	1.56912961E-07	-8.36799359E-08	4.35583711E-08	*AMF	773		
1455-	*AMF	773	-2.20071332E-07	1.44140670E-07	-7.99408895E-08	2.88298786E-08	*AMF	774		
1456-	*AMF	774	-1.42004865E-07	8.05810600E-08	-5.06980662E-08	3.51194501E-08	*AMF	775		
1457-	*AMF	775	-1.74746659E-07	1.13814792E-07	-6.01436909E-08	2.55121649E-08	*AMF	776		
1458-	*AMF	776	-1.25808924E-07	7.05113052E-08	-4.15853982E-08	1.54633284E-08	*AMF	777		
1459-	*AMF	777	-6.91599844E-08	4.59765506E-08	-3.02708187E-08	1.47799194E-08	*AMF	778		
1460-	*AMF	778	-8.00321232E-08	3.76547650E-08	-2.58106745E-08	7.01823235E-08	*AMF	779		
1461-	*AMF	779	-3.41840985E-08	2.03686774E-08	-1.46092702E-08		*AMF	780		
1462-	DNI									
1463-										
1464-										
1465-										
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1500-										

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
1501-	*AMF 819	-2.16097476E-07	1.43201646E-07	-7.11359976E-08	6.05616570E-01	*AMF 820					
1502-	*AMF 820	-3.05054073E-07	1.96759492E-07	-1.04872527E-07	5.43552399E-01	*AMF 821					
1503-	*AMF 821	-2.77657950E-07	1.81043731E-07	-1.06747400E-07	3.51194501E-01	*AMF 822					
1504-	*AMF 822	-1.77679471E-07	1.01380010E-07	-6.61344184E-08	4.89867210E-01	*AMF 823					
1505-	*AMF 823	-2.44725322E-07	1.54168788E-07	-7.90562353E-08	3.48937690E-01	*AMF 824					
1506-	*AMF 824	-1.76948797E-07	9.58605142E-08	-5.66885861E-08	2.11017132E-01	*AMF 825					
1507-	*AMF 825	-9.36995276E-08	6.23824121E-08	-4.12338263E-08	2.01139467E-01	*AMF 826					
1508-	*AMF 826	-1.08631127E-07	5.11282432E-08	-3.51265577E-08	9.54154730E-02	*AMF 827					
1509-	*AMF 827	-4.64158951E-08	2.76803992E-08	-1.98622239E-08							
1510-	DMI										
1511-	*AMF 829	1.28012016E-06	-1.51670863E-12	-3.50499082E-12	-3.17995301E-08	*AMF 828					
1512-	*AMF 830	1.38994859E-05	-1.77303311E-11	-3.77154002E-11	-1.31163063E-07	*AMF 831					
1513-	*AMF 831	1.66658050E-04	-1.29170397E-10	-2.91523259E-10	-3.12441035E-07	*AMF 832					
1514-	*AMF 832	8.21882160E-04	-1.01070019E-09	-2.23438090E-09	-2.78854084E-07	*AMF 833					
1515-	*AMF 833	4.52595170E-03	-4.67000660E-09	-1.22917321E-08	-1.78746859E-07	*AMF 834					
1516-	*AMF 834	6.52826072E-03	-5.81165693E-09	-1.76144397E-08	-2.44762532E-07	*AMF 835					
1517-	*AMF 835	2.10703909E-02	-1.34365758E-08	-5.88701248E-08	-1.77979075E-07	*AMF 836					
1518-	*AMF 836	5.47801331E-03	-5.28334354E-09	-1.47264902E-08	-1.07629376E-07	*AMF 837					
1519-	*AMF 837	2.65220111E-03	-2.54587032E-09	-7.66632007E-09	-1.03148239E-07	*AMF 838					
1520-	*AMF 838	1.44844851E-03	-1.60795498E-09	-3.97059807E-09	-4.91494561E-08	*AMF 839					
1521-	*AMF 839	3.01853035E-04	-3.51831031E-10	-8.32143243E-10							
1522-	DMI										
1523-	*AMF 941	-1.53419898E-12	6.46392331E-08	-2.96292735E-14	2.01364359E-08	*AMF 841					
1524-	*AMF 842	-1.78592280E-11	-5.69178667E-07	4.45293439E-13	8.30589215E-08	*AMF 842					
1525-	*AMF 843	-1.27656381E-10	5.69353836E-06	-5.04441194E-12	1.40350267E-07	*AMF 843					
1526-	*AMF 844	-1.02271303E-09	-3.28895112E-06	-2.09658541E-11	1.98063844E-07	*AMF 844					
1527-	*AMF 845	-4.59556655E-09	1.01476093E-03	-1.55076512E-09	1.77297352E-07	*AMF 845					
1528-	*AMF 846	-5.45248113E-09	2.67313677E-03	-3.27940763E-09	1.13814792E-07	*AMF 846					
1529-	*AMF 847	-1.34365758E-08	1.37952156E-02	-1.13523591E-08	1.54168788E-07	*AMF 847					
1530-	*AMF 848	-5.05787517E-09	1.74273465E-03	-2.59220800E-09	1.33236656E-07	*AMF 848					
1531-	*AMF 849	-2.62777244E-09	6.26330616E-04	-1.06101217E-09	6.87497277E-08	*AMF 849					
1532-	*AMF 850	-1.64709427E-09	1.75264548E-04	-3.49417394E-10	6.56901875E-08	*AMF 850					
1533-	*AMF 851	-3.66108921E-10	7.83665382E-06	-1.64643249E-11	3.12016937E-08	*AMF 851					
1534-	DMI										
1535-	*AMF 853	-3.96364009E-12	-3.54167887E-14	5.98943757E-08	1.08710077E-08	*AMF 852					
1536-	*AMF 854	-3.79127146E-11	4.97855500E-13	-3.94021470E-07	-4.40449561E-08	*AMF 853					
1537-	*AMF 855	-2.91820568E-10	-5.35232362E-12	2.50958955E-06	-7.44251452E-08	*AMF 854					
1538-	*AMF 856	-2.24360375E-09	-2.92111648E-11	-1.63196392E-05	-1.05038737E-07	*AMF 855					
1539-	*AMF 857	-1.24464776E-08	-1.60881085E-09	2.76346924E-04	-9.41106464E-08	*AMF 856					
1540-	*AMF 858	-1.81182038E-08	-3.35527872E-09	1.24011589E-03	-6.01436590E-08	*AMF 857					
1541-	*AMF 859	-5.88701248E-08	-1.13523591E-08	9.88379255E-03	-7.90562353E-08	*AMF 858					
1542-	*AMF 860	-1.50539137E-08	-2.63219979E-09	5.51045453E-04	-6.02479984E-08	*AMF 859					
1543-	*AMF 861	-7.25712823E-09	-1.10380244E-09	1.52925252E-04	-3.65296060E-08	*AMF 860					
1544-	*AMF 862	-3.99576067E-09	-1.61206620E-10	4.02354822E-06	-3.48835556E-08	*AMF 861					
1545-	*AMF 863	-8.22909163E-10	-1.70582715E-11	-7.22626112E-07	-1.65474973E-08	*AMF 862					
1546-	DMI										
1547-	*AMF 865	-2.21234016E-08	1.49949493E-08	-6.77859191E-09	4.49882964E-02	*AMF 863					
1548-	*AMF 866	-9.45283867E-08	5.36306115E-08	-3.24606174E-08	1.85559154E-01	*AMF 864					
1549-	*AMF 867	-1.57905561E-07	1.04629066E-07	-5.19753367E-09	3.13554081E-01	*AMF 865					
1550-	*AMF 868	-2.22001507E-07	1.43746453E-07	-7.66106609E-08	4.42449629E-01	*AMF 866					
1551-					3.96711290E-01	*AMF 867					
1552-						*AMF 868					

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1551-	*AMF 869	-2.02962497E-07	1.32398782E-07	-7.36433776E-08	2.55121648E-01	*AMF 870				
1552-	*AMF 870	-1.29740783E-07	7.43359937E-08	-4.85459388E-08	3.48937699E-01	*AMF 871				
1553-	*AMF 871	-1.77975075E-07	1.13323665E-07	-6.42479986E-08	2.92934000E-01	*AMF 872				
1554-	*AMF 872	-1.39302927E-07	7.67540769E-08	-4.0421149E-08	1.74048185E-01	*AMF 873				
1555-	*AMF 873	-7.56349436E-08	5.00478343E-08	-3.29961338E-08	1.62534773E-01	*AMF 874				
1556-	*AMF 874	-8.65587957E-08	4.19267482E-08	-2.82661645E-08	7.67656555E-02	*AMF 875				
1557-	*AMF 875	-3.71744657E-08	2.22519816E-08	-1.59814775E-08		*AMF 876				
1558-	DMI	*MFLC	114							
1559-	*AMF 877	3.77962176E-07	-4.61147071E-13	-1.03087594E-12	-2.23153833E-08	*AMF 877				
1560-	*AMF 878	4.16285247E-06	-5.17096695E-12	-1.11362309E-11	-9.20452974E-08	*AMF 878				
1561-	*AMF 879	3.14892068E-05	-3.89200583E-11	-8.59610161E-11	-1.55527061E-07	*AMF 879				
1562-	*AMF 880	2.41915026E-04	-3.93079117E-10	-6.58181553E-10	-2.19377009E-17	*AMF 880				
1563-	*AMF 881	1.32873115E-03	-1.51024149E-09	-3.59236707E-09	-1.96239455E-07	*AMF 881				
1564-	*AMF 882	1.84668112E-03	-1.99401340E-09	-4.94016561E-09	-1.25808924E-07	*AMF 882				
1565-	*AMF 883	5.47801321E-03	-5.05767517E-09	-1.50539137E-08	-1.70948397E-07	*AMF 883				
1566-	*AMF 884	1.47013366E-02	-9.94598529E-09	-4.0360360E-08	-1.39302927E-07	*AMF 884				
1567-	*AMF 885	6.53460622E-03	-4.19051415E-09	-1.91753458E-08	-8.29979854E-08	*AMF 885				
1568-	*AMF 886	3.04521178E-01	-2.91811241E-09	-8.38599997E-08	-7.90892043E-09	*AMF 886				
1569-	*AMF 887	6.945792810E-04	-7.22665039E-10	-1.78184800E-09	-3.78007279E-09	*AMF 887				
1570-	DMI	*MFLC	115							
1571-	*AMF 889	-4.72911424E-13	8.55937188E-09	-1.52655768E-14	1.24570327E-08	*AMF 889				
1572-	*AMF 890	-5.26108324E-12	-7.55055112E-08	-1.16619388E-13	5.13827345E-08	*AMF 890				
1573-	*AMF 891	-3.90153049E-11	6.18402564E-07	-1.06984040E-12	8.68253665E-08	*AMF 891				
1574-	*AMF 892	-3.04758885E-10	-5.51770597E-07	2.9884767E-14	1.22517747E-07	*AMF 892				
1575-	*AMF 893	-1.52725587E-09	1.31028390E-04	-2.36816788E-10	1.09791529E-07	*AMF 893				
1576-	*AMF 894	-1.58033168E-09	3.43545531E-04	-5.73014303E-10	7.05113052E-08	*AMF 894				
1577-	*AMF 895	-5.28334354E-09	1.74277346E-03	-2.63219979E-09	9.58605142E-08	*AMF 895				
1578-	*AMF 896	-8.94598529E-09	9.57347453E-03	-8.20900325E-09	7.67540769E-08	*AMF 896				
1579-	*AMF 897	-4.65056615E-09	3.51828481E-03	-3.43984907E-09	4.67863188E-08	*AMF 897				
1580-	*AMF 898	-3.07887271E-09	8.94891022E-04	-1.33470368E-09	4.45615740E-08	*AMF 898				
1581-	*AMF 899	-7.50234541E-10	6.15121680E-05	-1.25812121E-10	2.12311768E-08	*AMF 899				
1582-	DMI	*MFLC	116							
1583-	*AMF 901	-1.00787434E-12	1.62246044E-14	2.11243267E-09	-7.34058148E-09	*AMF 901				
1584-	*AMF 902	1.06594666E-11	1.19739394E-13	-1.14181669E-09	3.02781967E-08	*AMF 902				
1585-	*AMF 903	-8.42214631E-11	-1.10045046E-12	9.87653266E-08	5.11638787E-08	*AMF 903				
1586-	*AMF 904	-6.47951079E-10	4.95567644E-14	-6.33008995E-07	-7.21964452E-08	*AMF 904				
1587-	*AMF 905	-3.55743768E-09	-2.11359599E-10	1.52885768E-05	-4.15853982E-08	*AMF 905				
1588-	*AMF 906	-4.55467134E-09	-5.73136827E-10	7.11917091E-05	-5.66085561E-09	*AMF 906				
1589-	*AMF 907	-1.47258402E-08	-2.59220809E-09	5.51084539E-04	-4.44921149E-08	*AMF 907				
1590-	*AMF 908	-4.03689366E-08	-8.20900325E-09	6.83207810E-03	-2.74341581E-08	*AMF 908				
1591-	*AMF 909	-1.75770665E-08	-3.54071905E-09	2.25096173E-03	-2.63837840E-08	*AMF 909				
1592-	*AMF 910	-8.18480572E-09	-1.39879641E-09	2.43433271E-04	-1.25282007E-08	*AMF 910				
1593-	*AMF 911	-1.72712467E-09	-1.30432595E-10	-3.83782117E-06		*AMF 911				
1594-	DMI	*MFLC	117							
1595-	*AMF 913	-1.34184042E-08	9.39401912E-09	-4.11138856E-09	2.72853412E-02	*AMF 913				
1596-	*AMF 914	-5.73378568E-08	3.55600551E-09	-1.96882194E-08	1.12546384E-01	*AMF 914				
1597-	*AMF 915	-5.5773732E-08	6.34602202E-08	-3.15243582E-08	1.9017871E-01	*AMF 915				
1598-	*AMF 916	-1.35252492E-07	8.71849579E-08	-4.64697646E-08	2.68354297E-01	*AMF 916				
1599-	*AMF 917	-1.23074074E-07	8.91085095E-08	-4.46634729E-08	2.40584612E-01	*AMF 917				
1600-	*AMF 918	-7.86260443E-08	4.51005064E-08	-2.94365172E-08	1.54633284E-01	*AMF 918				
1601-					2.11017132E-01	*AMF 919				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1501	*AMF 919	-1.07629376E-07	6.97497277E-08	-3.65296060E-08	1.74048185E-01	*AMF 920				
1502	*AMF 920	-8.25579854E-08	4.67863188E-08	-2.74341581E-08	1.10184968E-01	*AMF 921				
1503	*AMF 921	-4.66062566E-08	3.12040933E-08	-2.03205559E-08	1.0688994E-01	*AMF 922				
1504	*AMF 922	-5.34792738E-08	2.53462993E-08	-1.74570156E-08	4.73876670E-02	*AMF 923				
1505	*AMF 923	-2.28681110E-08	1.37325564E-08	-9.86642590E-09		*AMF 924				
1506	DMI	*MFLC	118	85						
1507	*AMF 925	1.90437561E-07	-2.33496707E-13	-5.19127005E-13	-5.66344087E-08	*AMF 925				
1508	*AMF 926	2.06714139E-06	-2.59969477E-12	-5.61097349E-12	-8.55562803E-08	*AMF 926				
1509	*AMF 927	1.56639741E-05	-1.56210403E-11	-4.3303127E-11	-1.20683239E-07	*AMF 927				
1510	*AMF 928	1.21786055E-04	-1.52600252E-10	-3.31384475E-10	-1.07963384E-07	*AMF 928				
1511	*AMF 929	6.67588327E-04	-7.72895969E-10	-1.80499349E-09	-6.91999844E-08	*AMF 930				
1512	*AMF 930	9.18425620E-04	-1.12774100E-09	-2.45242537E-09	-9.38992278E-08	*AMF 931				
1513	*AMF 931	2.65320111E-03	-2.62777244E-09	-7.25712823E-09	-7.56347436E-08	*AMF 932				
1514	*AMF 932	6.52460622E-03	-4.65056613E-09	-1.75770865E-08	-4.66052566E-08	*AMF 933				
1515	*AMF 933	5.80589473E-03	-3.37129899E-09	-1.68573635E-08	-4.41291661E-08	*AMF 934				
1516	*AMF 934	2.32159719E-03	-2.32814321E-09	-6.37732711E-09	-2.11147509E-08	*AMF 935				
1517	*AMF 935	4.74588716E-04	-5.23577626E-10	-1.31078814E-09		*AMF 936				
1518	DMI	*MFLC	110	85						
1519	*AMF 937	-2.27673132E-13	3.55264894E-09	-7.41677295E-15	6.10435807E-09	*AMF 937				
1520	*AMF 938	-2.81478526E-12	-3.14192018E-04	5.05918483E-14	3.34288295E-08	*AMF 938				
1521	*AMF 939	-1.66552800E-11	2.54736449E-07	-4.69361312E-13	5.64673233E-09	*AMF 939				
1522	*AMF 940	-1.45618656E-10	-3.00384897E-07	2.86437974E-13	7.14345556E-08	*AMF 940				
1523	*AMF 941	-7.42115125E-10	5.31498663E-05	-9.81958817E-11	4.58765506E-08	*AMF 941				
1524	*AMF 942	-9.60265645E-13	1.35176779E-04	-2.38641955E-10	6.23824121E-08	*AMF 942				
1525	*AMF 943	-2.54537032E-09	6.72633061E-04	-1.10396024E-09	5.00478343E-08	*AMF 943				
1526	*AMF 944	-4.1901815E-09	3.51828483E-03	-3.54071905E-09	3.12040933E-08	*AMF 944				
1527	*AMF 945	-2.07125895E-09	3.91214341E-03	-2.77676655E-09	2.94942168E-08	*AMF 945				
1528	*AMF 946	-2.07496287E-09	8.19702400E-04	-1.11781762E-09	1.40526346E-08	*AMF 946				
1529	*AMF 947	-5.12648146E-10	5.38137929E-05	-1.13045934E-10		*AMF 947				
1530	DMI	*MFLC	120	85						
1531	*AMF 949	-5.46309905E-13	-7.97258242E-15	4.71042316E-10	-5.34357270E-09	*AMF 949				
1532	*AMF 950	-5.54600457E-12	4.94124361E-14	-3.24659521E-09	-2.20411458E-08	*AMF 950				
1533	*AMF 951	-4.57060362E-11	-4.71456207E-13	2.44896844E-08	-3.72447282E-08	*AMF 951				
1534	*AMF 952	3.60464388E-10	2.49412443E-11	-1.72284982E-07	-5.25547605E-08	*AMF 952				
1535	*AMF 953	-1.92596716E-09	-9.7241154E-11	4.37548093E-06	4.71137657E-09	*AMF 953				
1536	*AMF 954	-2.6511022E-09	-2.33075781E-10	2.05770030E-05	-3.02708197E-08	*AMF 954				
1537	*AMF 955	-7.66682007E-09	-1.95101217E-09	1.54292525E-04	-4.12376267E-08	*AMF 955				
1538	*AMF 956	-1.9175345E-08	-3.43984907E-09	2.25096173E-03	-3.29961330E-08	*AMF 956				
1539	*AMF 957	-1.66573635E-08	-2.77876655E-09	2.93195282E-03	-2.03205559E-08	*AMF 957				
1540	*AMF 958	-6.73653489E-09	-1.14698730E-09	2.90461583E-04	-1.95547685E-08	*AMF 958				
1541	*AMF 959	-1.26826039E-09	-1.18803038E-10	-5.03673800E-06	-9.28312716E-09	*AMF 959				
1542	DMI	*MFLC	121	85						
1543	*AMF 961	-1.28367077E-08	8.70052830E-09	-3.93314536E-09	2.61024237E-02	*AMF 961				
1544	*AMF 962	-5.0486341E-08	3.40192550E-08	-1.88346618E-08	1.07667089E-01	*AMF 962				
1545	*AMF 963	-9.16242584E-08	6.07084191E-08	-3.01576435E-08	1.81933761E-01	*AMF 963				
1546	*AMF 964	-1.25410921E-07	8.34040179E-08	-4.44506227E-08	2.56716669E-01	*AMF 964				
1547	*AMF 965	-1.17809368E-07	7.68254722E-07	-4.27215454E-08	2.30114400E-01	*AMF 965				
1548	*AMF 966	-7.51358233E-08	4.31385168E-08	-2.81440045E-08	1.47799194E-01	*AMF 966				
1549	*AMF 967	-1.03148238E-07	6.56901075E-08	-3.48815556E-08	2.01130867E-01	*AMF 967				
1550	*AMF 968	-7.90692045E-08	4.45615740E-08	-2.63837840E-08	1.62534777E-01	*AMF 968				
1551					1.00608994E-01	*AMF 969				

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CUJVT										
1651-	*AMF 969	-4.41291661E-08	2.94942168E-08	-1.95547685E-08	-1.07748151E-01	*AMF 970				
1652-	*AMF 970	-5.52647812E-08	2.53169898E-08	-1.70803105E-08	4.83655632E-02	*AMF 971				
1653-	*AMF 971	-2.30856081E-08	1.39153329E-08	-1.00615978E-08						
1654-	DVI	*MFLC	122	85						
1655-	*AMF 973	1.10556357E-07	-1.38966583E-13	-3.00284756E-13	-1.41714551E-08	*AMF 973				
1656-	*AMF 974	1.15992819E-06	-1.50388850E-12	-3.25213207E-12	-5.84540203E-08	*AMF 974				
1657-	*AMF 975	9.20958745E-06	-1.14819413E-11	-2.51216736E-11	-9.87716362E-08	*AMF 975				
1658-	*AMF 976	7.06102581E-05	-8.34574775E-11	-1.92126287E-10	-1.39344868E-07	*AMF 976				
1659-	*AMF 977	3.66485364E-04	-4.64097205E-10	-1.04421161E-09	-8.00322332E-08	*AMF 977				
1660-	*AMF 978	5.22835413E-04	-6.28751939E-10	-1.34551453E-09	-1.08631127E-07	*AMF 978				
1661-	*AMF 979	1.44844851E-03	-1.64789427E-09	-3.95763067E-09	-8.69987957E-08	*AMF 979				
1662-	*AMF 980	3.04521172E-03	-3.07887271E-07	-8.18481572E-09	-5.34797238E-08	*AMF 980				
1663-	*AMF 981	2.32159719E-03	-2.37496287E-09	-6.73633488E-09	-5.52647812E-08	*AMF 981				
1664-	*AMF 982	6.40913472E-03	-4.21444670E-07	-1.80510435E-08	-2.58285157E-08	*AMF 982				
1665-	*AMF 983	9.55177316E-04	-1.00278230E-03	-2.74848989E-09						
1666-	DVI	*MFLC	123	85						
1667-	*AMF 985	-1.37193475E-13	1.14201804E-09	-3.40295396E-15	6.65346889E-09	*AMF 985				
1668-	*AMF 986	-1.48957134E-12	-1.01642605E-08	1.61593727E-14	2.74441074E-09	*AMF 986				
1669-	*AMF 987	-1.11921080E-11	8.03248668E-03	-1.70017212E-13	4.63745197E-08	*AMF 987				
1670-	*AMF 988	-8.64363715E-11	-1.54075904E-07	-2.97913007E-13	6.54367227E-08	*AMF 988				
1671-	*AMF 989	-4.56106244E-10	1.58224429E-05	-3.14634430E-11	5.86435382E-08	*AMF 989				
1672-	*AMF 990	-6.00280278E-10	3.35034090E-05	-7.74169140E-11	3.76587659E-08	*AMF 990				
1673-	*AMF 991	-1.60755882E-09	1.75245448E-04	-3.61206620E-10	5.1912432E-08	*AMF 991				
1674-	*AMF 992	-2.83811243E-09	8.34891022E-04	-1.39879641E-09	4.10267482E-08	*AMF 992				
1675-	*AMF 993	-2.02814321E-09	6.19702400E-04	-1.14658739E-09	2.53462993E-08	*AMF 993				
1676-	*AMF 994	-4.21446700E-09	4.36616147E-03	-3.44557325E-09	2.53169898E-08	*AMF 994				
1677-	*AMF 995	-5.72619E40E-10	2.42316310E-04	-4.53648121E-10	1.222266783E-08	*AMF 995				
1678-	DVI	*MFLC	124	85						
1679-	*AMF 997	-3.00647993E-13	-3.91459326E-15	-9.81833087E-11	-4.55835192E-08	*AMF 997				
1680-	*AMF 998	-3.20284032E-12	1.41080272E-14	5.95379965E-10	-1.88022611E-08	*AMF 998				
1681-	*AMF 999	-2.62214142E-11	-1.72256198E-11	-2.76855491E-09	3.17717017E-08	*AMF 999				
1682-	*AMF1000	-1.92566871E-10	2.94853063E-13	4.78508966E-09	-4.48312889E-09	*AMF1000				
1683-	*AMF1001	-1.05582249E-09	-3.10038245E-11	-3.08511654E-08	-4.01856681E-08	*AMF1001				
1684-	*AMF1002	-1.42241764E-09	-7.55178142E-11	-1.22077770E-08	-2.58106745E-08	*AMF1002				
1685-	*AMF1003	-3.57054807E-09	-3.44470081E-10	-4.02364823E-06	-3.51265577E-08	*AMF1003				
1686-	*AMF1004	-6.38589557E-05	-1.33470364E-04	2.43433271E-04	-2.82661644E-09	*AMF1004				
1687-	*AMF1005	-6.37732711E-09	-1.11781762E-09	2.90461583E-04	-1.74590156E-08	*AMF1005				
1688-	*AMF1006	-1.80530435E-08	-3.46573725E-09	3.07063758E-03	-1.70803105E-08	*AMF1006				
1689-	*AMF1007	-2.72590857E-09	-4.55731675E-10	1.10154933E-05	-8.44032755E-09	*AMF1007				
1690-	DVI	*MFLC	125	85						
1691-	*AMF1009	-6.05790263E-09	4.13305556E-07	-1.86838300E-09	1.23995692E-02	*AMF1009				
1692-	*AMF1010	-2.60552078E-04	1.61603353E-08	-8.94712571E-09	5.11455542E-02	*AMF1010				
1693-	*AMF1011	-4.35261036E-08	2.38390406E-08	-1.43259307E-08	8.64240276E-02	*AMF1011				
1694-	*AMF1012	-6.14849114E-08	3.96195210E-08	-2.11154507E-08	1.21940540E-01	*AMF1012				
1695-	*AMF1013	-5.60358124E-08	3.64951518E-08	-2.02924753E-09	1.09302938E-01	*AMF1013				
1696-	*AMF1014	-3.58516345E-08	2.94928449E-08	-1.33641933E-08	7.01823235E-02	*AMF1014				
1697-	*AMF1015	-4.91494561E-08	3.12016037E-03	-1.65478973E-08	9.54154730E-02	*AMF1015				
1698-	*AMF1016	-3.78007274E-08	2.12311760E-04	-1.25282007E-08	7.67656565E-02	*AMF1016				
1699-	*AMF1017	-2.1147509E-08	1.405263346E-04	-9.28312716E-09	4.73876670E-02	*AMF1017				
1700-	*AMF1018	-2.58285157E-08	1.22266781E-08	-8.44032755E-09	2.74055678E-02	*AMF1018				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1701-	*AMF1019	-1.24184325E-08	7.30652161E-09	-5.08361353E-09						*AMF1020
1702-	DMI	*MFLC	126							
1703-	*AMF1021	2.2E784103E-08	-2.99527316E-14	-6.16723469E-14	-6.04721961E-09					*AMF1021
1704-	*AMF1022	2.4831649E-07	-3.14913297E-13	-6.70751540E-13	-2.49474677E-08					*AMF1022
1705-	*AMF1023	1.56567971E-06	-2.39469122E-12	-5.19636764E-12	-4.21403826E-08					*AMF1023
1706-	*AMF1024	1.46143775E-05	-1.82950450E-11	-3.97597788E-11	-5.94678156E-08					*AMF1024
1707-	*AMF1025	7.55566801E-05	-9.82028209E-11	-2.16129573E-10	-3.4184085E-09					*AMF1025
1708-	*AMF1026	1.08399399E-04	-1.35505523E-10	-2.89337443E-10	-4.64158951E-09					*AMF1026
1709-	*AMF1027	3.01530352E-04	-3.66108921E-10	-8.23909163E-10	-3.71744697E-08					*AMF1027
1710-	*AMF1028	6.45792810E-04	-7.50234541E-10	-1.72712467E-09	-2.286801110E-08					*AMF1028
1711-	*AMF1029	4.74568716E-04	-5.12648146E-10	-1.36826839E-09	-2.30856081E-09					*AMF1029
1712-	*AMF1030	9.55177310E-04	-9.72619540E-10	-2.72970897E-09	-1.24184325E-08					*AMF1030
1713-	*AMF1031	2.19232125E-03	-1.11339094E-09	-6.20675777E-09						*AMF1031
1714-	DMI	*MFLC	127							
1715-	*AMF1033	-2.94997825E-14	4.31160802E-11	-6.52249251E-16	3.59877705E-09					*AMF1033
1716-	*AMF1034	-2.05282186E-13	-3.81521925E-10	-1.68464583E-15	1.48442076E-08					*AMF1034
1717-	*AMF1035	-2.32288494E-12	3.03606873E-09	-1.10831110E-14	2.50834411E-08					*AMF1035
1718-	*AMF1036	-1.77621806E-11	-3.84627086E-09	6.30871494E-15	3.53936223E-08					*AMF1036
1719-	*AMF1037	-9.64771874E-11	6.40203154E-07	-1.30566131E-12	3.17231468E-08					*AMF1037
1720-	*AMF1038	-1.25972616E-10	1.63454570E-06	-3.37588899E-12	2.03686774E-08					*AMF1038
1721-	*AMF1039	-2.56831631E-10	7.83665382E-06	-1.70582715E-11	2.76893992E-08					*AMF1039
1722-	*AMF1040	-7.23665039E-10	6.15121680E-05	-1.30432555E-10	2.22519816E-09					*AMF1040
1723-	*AMF1041	-5.23577626E-10	5.38137824E-05	-1.13880309E-10	1.37325564E-08					*AMF1041
1724-	*AMF1042	-1.00278230E-09	2.42316310E-04	-4.55731675E-10	1.39153329E-08					*AMF1042
1725-	*AMF1043	-1.11338094E-09	1.54386647E-03	-1.0960862E-09	7.30652161E-09					*AMF1043
1726-	DMI	*MFLC	128							
1727-	*AMF1045	-6.42741169E-14	-9.69502688E-16	-1.53741049E-11	-2.58110711E-09					*AMF1045
1728-	*AMF1046	-6.75561729E-13	-2.46313136E-15	9.72937564E-11	-1.06465308E-08					*AMF1046
1729-	*AMF1047	-5.25068617E-12	-1.23683515E-14	-5.23922413E-10	-1.79902919E-08					*AMF1047
1730-	*AMF1048	-4.03244521E-11	4.14099500E-15	2.95487701E-09	-2.53849350E-08					*AMF1048
1731-	*AMF1049	-2.20782158E-10	-1.28082007E-12	-1.78231296E-08	-1.46092702E-08					*AMF1049
1732-	*AMF1050	-2.99171576E-10	-3.2708961E-12	-5.79634793E-08	-1.98622239E-08					*AMF1050
1733-	*AMF1051	-6.32143243E-10	-1.64543240E-11	-7.22626112E-07	-1.59814775E-09					*AMF1051
1734-	*AMF1052	-1.78184806E-09	-1.25991212E-10	-3.83782117E-06	-9.86642590E-09					*AMF1052
1735-	*AMF1053	-1.31078814E-09	-1.13045934E-10	-5.03673800E-06	-1.00615974E-09					*AMF1053
1736-	*AMF1054	-2.74848788E-09	-4.33645121E-10	-1.0154933E-05	-5.048361353E-09					*AMF1054
1737-	*AMF1055	-6.20675777E-09	-1.0960862E-09	1.15759957E-03						*AMF1055
1738-	DMI	POU2	0							
1739-	DMI	POU2	17							
1740-	*APD	1	-3.46021212E-10	2.64811294E-10	-2.26692456E-10	-8.01921124E-04	*APD	1		
1741-	*APD	2	-1.12185067E-10	5.28164483E-11	-2.50242049E-11	-7.61846313E-04	*APD	2		
1742-	*APD	3	-6.06729111E-11	1.45693021E-11	-6.25622210E-12	-7.50610139E-04	*APD	3		
1743-	*APC	4	-3.06592964E-11	7.7144467E-12	-1.80319648E-12	-7.46702543E-04	*APD	4		
1744-	*APD	5	-2.26768326E-11	3.15467791E-12	-4.89373082E-13	-7.45557481E-04	*APD	5		
1745-	*APD	6	-1.74637110E-11	1.37953118E-12	-2.21955541E-13	-7.44902529E-04	*APD	6		
1746-	*APC	7	-1.14300595E-11	1.19429398E-12	-1.08957602E-13	-7.44292280E-04	*APD	7		
1747-	*APD	8	-5.58677801E-12	5.57776102E-13	-3.20770835E-14	-7.43997283E-04	*APD	8		
1748-	*APD	9	-6.97346781E-12	2.83747960E-13	-1.00523722E-14	-7.43735814E-04	*APD	9		
1749-	*APD	10	-1.13169630E-12	5.22057853E-15	-9.53694330E-18	-7.43745361E-04	*APD	10		
1750-	*APC	11	-3.70424438E-12	7.12387506E-14	-7.43138427E-16		*APD	11		
1751-										

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
DMI	1	2	3	4	5	6	7	8	9	10
1751-	*APD	13	-7.56492659E-04	-5.49899015E-10	9.59171053E-11	5.42383471E-10	3.91866539E-10	*APD	13	
1752-	*APD	14	-2.45267525E-04	-1.05523854E-10	1.04887835E-11	1.04887835E-11	3.72283537E-10	*APD	14	
1753-	*APC	15	-1.32647823E-04	-3.85606130E-11	2.62226699E-12	2.62226699E-12	3.66792818E-10	*APD	15	
1754-	*APD	16	-8.02348659E-05	-1.60237240E-11	7.55801725E-13	7.55801725E-13	3.64893457E-10	*APD	16	
1755-	*APD	17	-4.95778655E-05	-6.55090565E-12	2.05118474E-13	2.05118474E-13	3.64323904E-10	*APD	17	
1757-	*APD	18	-3.81852949E-05	-3.90093957E-12	9.26543998E-14	9.26543998E-14	3.64003938E-10	*APD	18	
1753-	*APD	19	-3.02363333E-05	-2.45926803E-12	4.56690959E-14	4.56690959E-14	3.63705732E-10	*APD	19	
1757-	*APD	20	-2.09462305E-05	-1.15826012E-12	1.34449641E-14	1.34449641E-14	3.63561403E-10	*APD	20	
1763-	*APD	21	-1.52459361E-05	-5.89222139E-13	4.21328079E-15	4.21328079E-15	3.63433728E-10	*APD	21	
1751-	*APC	22	-2.47420212E-06	-1.04575055E-13	3.99736603E-15	3.99736603E-15	3.63438390E-10	*APD	22	
1753-	*APD	23	-8.65850553E-06	-1.47932178E-13	3.11493026E-16	3.11493026E-16	*APD	23		
1753-	DMI									
1763-	*APC	25	9.25906907E-10	-5.91966789E-04	-7.52114593E-10	-7.52114593E-10	-3.09632986E-10	*APD	25	
1763-	*APD	26	3.06192093E-10	-1.13506513E-04	-8.30247121E-11	-8.30247121E-11	-2.23706775E-10	*APD	26	
1765-	*APC	27	1.62352617E-10	-4.15106314E-05	-2.07567277E-11	-2.07567277E-11	-2.09392929E-10	*APD	27	
1767-	*APC	28	5.82024323E-11	-1.72495493E-05	-5.98260243E-12	-5.98260243E-12	-2.08302819E-10	*APD	28	
1753-	*APC	29	6.06801570E-11	-7.05205730E-06	-1.62763005E-12	-1.62763005E-12	-2.07983436E-10	*APD	29	
1763-	*APC	30	4.67305777E-11	-4.19932258E-05	-7.33412789E-13	-7.33412789E-13	-2.07800721E-10	*APD	30	
1770-	*APC	31	3.70073033E-11	-2.64740538E-06	-3.61496965E-13	-3.61496965E-13	-2.07630482E-10	*APD	31	
1771-	*APD	32	2.5636815E-11	-1.24686812E-06	-1.66424526E-13	-1.66424526E-13	-2.07548131E-10	*APD	32	
1772-	*APC	33	1.86600596E-11	-6.34298260E-07	-3.33505264E-14	-3.33505264E-14	-2.07475204E-10	*APD	33	
1773-	*APC	34	3.02826961E-12	-1.16981154E-08	-3.16414319E-17	-3.16414319E-17	-2.07477882E-10	*APD	34	
1773-	*APC	35	5.91206245E-12	-1.59249169E-07	-2.46556701E-15	-2.46556701E-15	*APD	35		
1775-	DMI									
1775-	*APC	37	2.67041628E-09	1.16655707E-09	-4.67414735E-04	-4.67414735E-04	2.01916761E-10	*APD	37	
1777-	*APC	38	6.71258382E-10	2.23858571E-10	-5.15971624E-05	-5.15971624E-05	1.45882792E-10	*APD	38	
1773-	*APD	39	3.63035824E-10	8.13025667E-11	-1.28996426E-05	-1.28996426E-05	1.38592526E-10	*APD	39	
1773-	*APC	40	2.15590041E-10	3.39927669E-11	-3.71799342E-06	-3.71799342E-06	1.36548495E-10	*APD	40	
1793-	*APC	41	1.35686726E-10	1.38971083E-11	-1.00903344E-06	-1.00903344E-06	1.35837633E-10	*APD	41	
1791-	*APD	42	1.64494038E-10	8.27537951E-12	-4.55792303E-07	-4.55792303E-07	1.35510200E-10	*APD	42	
1782-	*APD	43	8.27520552E-11	5.21709845E-12	-2.24658663E-07	-2.24658663E-07	1.35399192E-10	*APD	43	
1783-	*APC	44	5.73265647E-11	2.45713606E-12	-6.61394211E-08	-6.61394211E-08	1.35345485E-10	*APD	44	
1793-	*APC	45	4.17256923E-11	1.24997669E-12	-2.07262723E-04	-2.07262723E-04	1.35207926E-10	*APD	45	
1785-	*APD	46	6.77149743E-12	2.30331399E-14	-1.96641176E-11	-1.96641176E-11	1.352996674E-10	*APD	46	
1786-	*APC	47	2.821693121E-11	3.13323728E-13	-1.53227009E-09	-1.53227009E-09	*APD	47		
1787-	DMI									
1793-	*APC	49	-7.54956040E-11	3.30288852E-11	-2.39765569E-11	-2.39765569E-11	-7.18155876E-04	*APD	49	
1790-	*APD	50	-2.55028443E-10	1.74139967E-10	-2.15776494E-10	-2.15776494E-10	-1.64854247E-03	*APD	50	
1790-	*APC	51	-1.20745108E-10	5.78695841E-11	-5.24183752E-11	-5.24183752E-11	-1.41854514E-03	*APD	51	
1791-	*APD	52	-6.95118824E-11	2.30115926E-11	-1.48627233E-11	-1.48627233E-11	-1.34536154E-03	*APD	52	
1791-	*APC	53	-4.21645059E-11	9.23572937E-12	-4.00162023E-12	-4.00162023E-12	-1.34046632E-03	*APD	53	
1791-	*APD	54	-3.22766674E-11	5.44914894E-12	-1.7960452E-12	-1.7960452E-12	-1.3377061E-03	*APD	54	
1791-	*APC	55	-2.54732485E-11	3.41759520E-12	-8.81717713E-13	-8.81717713E-13	-1.33532425E-03	*APD	55	
1795-	*APD	56	-1.75918165E-11	1.60161814E-12	-2.58573328E-13	-2.58573328E-13	-1.33416559E-03	*APD	56	
1795-	*APC	57	-1.27862625E-11	8.11115742E-13	-8.111395464E-14	-8.111395464E-14	-1.33315497E-03	*APD	57	
1797-	*APC	58	-2.07342316E-12	1.49819630E-14	-7.68632636E-17	-7.68632636E-17	-1.33319222E-03	*APD	58	
1799-	*APD	59	-6.78701019E-12	2.04429244E-13	-5.99174444E-15	-5.99174444E-15	*APD	59		
1799-	DMI									
1799-	*APD	61	-2.15648122E-04	-1.00766867E-10	7.75667985E-12	7.75667985E-12	3.48299189E-10	*APD	61	
1800-										

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
1991- *APD	62	-7.41979573E-04	-5.31275469E-10	6.98060360E-11	6.87982116E-10	*APD	63	6.87982116E-10	*APD	63
1992- *APD	63	-3.51295574E-04	-1.74552620E-10	1.69579073E-11	6.60967281E-10	*APD	64	6.60967281E-10	*APD	64
1993- *APD	64	-2.02227818E-04	-7.02054109E-11	4.80826750E-12	6.52488730E-10	*APD	65	6.52488730E-10	*APD	65
1994- *APC	65	-1.22731566E-04	-2.81770163E-11	1.29456689E-12	6.50114407E-10	*APD	66	6.50114407E-10	*APD	66
1995- *APD	66	-5.39057205E-05	-1.66246461E-11	5.81056199E-13	6.48807008E-10	*APD	67	6.48807008E-10	*APD	67
1996- *APD	67	-7.41116711E-05	-1.04266422E-11	2.85245243E-13	6.47620624E-10	*APD	68	6.47620624E-10	*APD	68
1997- *APC	68	-5.11616324E-05	-4.88633092E-12	8.36512934E-14	6.47058351E-10	*APD	69	6.47058351E-10	*APD	69
1998- *APD	69	-3.72003415E-05	-2.48071095E-12	2.62492089E-14	6.46568576E-10	*APD	70	6.46568576E-10	*APD	70
1999- *APC	70	-6.03241369E-06	-4.57080357E-14	2.48660948E-17	6.46586562E-10	*APD	71	6.46586562E-10	*APD	71
1999- *APC	71	-1.97461155E-05	-6.22771962E-13	1.93839615E-15			72			72
1999- DMI										
1999- *PDU2										
1999- *APC	73	-2.81828134E-10	-1.01730766E-04	-7.75180753E-11	-5.50281376E-10	*APD	74	-5.50281376E-10	*APD	74
1999- *APC	74	9.51012824E-10	-5.36357285E-04	-6.97621960E-10	-4.73509566E-10	*APD	75	-4.73509566E-10	*APD	75
1999- *APD	75	4.50264048E-10	-1.7821462E-04	-1.69472659E-10	-4.54915439E-10	*APD	76	-4.54915439E-10	*APD	76
1999- *APC	76	2.59212873E-10	-7.08769658E-05	-4.80524707E-11	-4.49079884E-10	*APD	77	-4.49079884E-10	*APD	77
1999- *APC	77	1.57307958E-10	-2.84465455E-05	-1.29375469E-11	-4.47445858E-10	*APD	78	-4.47445858E-10	*APD	78
1999- *APC	78	1.20361192E-10	-1.57835897E-05	-5.80691224E-12	-4.46546133E-10	*APD	79	-4.46546133E-10	*APD	79
1999- *APD	79	5.40505316E-11	-1.05263798E-05	-2.85066064E-12	-4.45729453E-10	*APD	80	-4.45729453E-10	*APD	80
1999- *APC	80	6.56007054E-11	-4.93307198E-06	-8.35987583E-13	-4.45342874E-10	*APD	81	-4.45342874E-10	*APD	81
1999- *APC	81	4.76885539E-11	-2.50444009E-06	-2.62327215E-13	-4.45005356E-10	*APD	82	-4.45005356E-10	*APD	82
1999- *APC	82	7.73188605E-12	-4.61452636E-08	-2.48504855E-15	-4.45017800E-10	*APD	83	-4.45017800E-10	*APD	83
1999- *APC	83	2.523090604E-11	-6.28279197E-07	-1.93717859E-14			84			84
1999- DMI										
1999- *PDU2										
1999- *APD	85	6.00829608E-10	2.02371328E-10	-4.62075695E-05	1.14571408E-10	*APD	86	1.14571408E-10	*APD	86
1999- *APD	86	2.02962580E-09	1.06696696E-09	-4.15843679E-04	2.26308375E-10	*APD	87	2.26308375E-10	*APD	87
1999- *APC	87	5.66541327E-10	3.54572594E-10	-1.01020560E-04	2.17421983E-10	*APD	88	2.17421983E-10	*APD	88
1999- *APD	88	5.53205265E-10	1.40994381E-10	-2.86434806E-05	2.14633006E-10	*APD	89	2.14633006E-10	*APD	89
1999- *APD	89	3.25722339E-10	5.65892480E-11	-7.71191171E-06	2.13852006E-10	*APD	90	2.13852006E-10	*APD	90
1999- *APC	90	2.56671413E-10	3.33874872E-11	-3.46142861E-06	2.13421947E-10	*APD	91	2.13421947E-10	*APD	91
1999- *APC	91	2.02727057E-10	2.09395442E-11	-1.69924351E-06	2.13031676E-10	*APD	92	2.13031676E-10	*APD	92
1999- *APD	92	1.40002331E-10	9.81327953E-12	-4.98121867E-07	2.12846851E-10	*APD	93	2.12846851E-10	*APD	93
1999- *APD	93	1.01758546E-10	4.78204169E-12	-1.56369993E-07	2.12685605E-10	*APD	94	2.12685605E-10	*APD	94
1999- *APD	94	1.65011764E-11	9.17957827E-14	-1.48110674E-10	2.12691571E-10	*APD	95	2.12691571E-10	*APD	95
1999- *APD	95	5.44013932E-11	1.29072001E-12	1.15472823E-08			96			96
1999- DMI										
1999- *PDU2										
1999- *APD	97	-3.78335656E-11	8.33381954E-12	-4.97065670E-12	-5.06198034E-04	*APD	98	-5.06198034E-04	*APD	98
1999- *APC	98	-1.11882658E-10	3.99587030E-11	-4.34668967E-11	-1.05246879E-03	*APD	99	-1.05246879E-03	*APD	99
1999- *APC	99	-2.55145888E-10	1.30164934E-10	-1.97454859E-10	-1.38667435E-03	*APD	100	-1.38667435E-03	*APD	100
1999- *APC	100	-1.26765792E-10	4.59342980E-11	-5.20322674E-11	-1.33645046E-03	*APD	101	-1.33645046E-03	*APD	101
1999- *APC	101	-7.26228303E-11	1.74379122E-11	-1.34857195E-11	-1.32350484E-03	*APD	102	-1.32350484E-03	*APD	102
1999- *APD	102	-5.44280315E-11	9.99277050E-12	-5.89958697E-12	-1.31690805E-03	*APD	103	-1.31690805E-03	*APD	103
1999- *APC	103	-4.25059571E-11	6.16457926E-12	-2.81194946E-12	-1.31125166E-03	*APD	104	-1.31125166E-03	*APD	104
1999- *APD	104	-2.90920115E-11	2.80414532E-12	-8.02271715E-13	-1.30869355E-03	*APD	105	-1.30869355E-03	*APD	105
1999- *APD	105	-2.10664958E-11	1.43557919E-12	-2.50289427E-13	-1.30652124E-03	*APD	106	-1.30652124E-03	*APD	106
1999- *APD	106	-3.44092199E-12	2.64435503E-14	-2.36859423E-16	-1.30660087E-03	*APD	107	-1.30660087E-03	*APD	107
1999- *APC	107	-1.11609394E-11	3.62304614E-13	-1.84689571E-14			108			108
1999- DMI										
1999- *PDU2										
1999- *APC	109	-8.81360174E-05	-2.85967500E-11	2.13587915E-12	2.31648159E-10	*APD	110	2.31648159E-10	*APD	110
1999- *APD	110	-2.60638772E-04	-1.37113390E-10	1.80776150E-11	4.81634288E-10	*APD	111	4.81634288E-10	*APD	111
1999- *APD	111	-5.55442734E-04	-4.46644943E-10	8.48458942E-11	7.20452364E-10	*APD	112	7.20452364E-10	*APD	112

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CARD	1	2	3	4	5	6	7	8	9	10
1851-	*APD	112	-2.95209816E-04	-1.57617905E-10	2.23581431E-11	6.11591000E-10	*APD	113		
1852-	*APD	113	-1.69203338E-04	-5.98360805E-11	5.79478219E-12	6.05666628E-10	*APD	114		
1853-	*APC	114	-1.26794010E-04	-3.42889606E-11	2.51802312E-12	6.02647932E-10	*APD	115		
1854-	*APC	115	-9.90206906E-05	-2.11529281E-11	1.22828781E-12	6.00059336E-10	*APD	116		
1855-	*APD	116	-6.77737848E-05	-9.71532703E-12	3.44734278E-13	5.98888716E-10	*APD	117		
1856-	*APC	117	-4.50759128E-05	-4.92583752E-12	1.07548790E-13	5.97894623E-10	*APD	118		
1857-	*APC	118	-7.94202242E-06	-9.07331266E-14	1.01777997E-16	5.979931038E-10	*APD	119		
1858-	*APC	119	-2.60001980E-05	-1.236334089E-12	7.93636852E-15		*APD	120		
1859-	DMI			27						
1860-					1					
1861-	*APD	121	1.10646728E-10	-2.75811035E-05	-1.40366737E-11	-2.94585911E-10	*APD	122		
1862-	*APD	122	7.27208038E-10	-1.32243658E-04	-1.22745494E-10	-4.40656400E-10	*APD	123		
1863-	*APC	123	7.46249255E-10	-4.30781860E-04	-5.57594193E-10	-3.86130195E-10	*APD	124		
1864-	*APC	124	2.70734548E-10	-1.52019944E-04	-1.46934294E-10	-3.74072551E-10	*APD	125		
1865-	*APD	125	2.12419402E-10	-5.77109458E-05	-3.80424122E-11	-3.70449005E-10	*APD	126		
1866-	*APC	126	1.55178290E-10	-3.30711482E-05	-1.65480546E-11	-3.68602482E-10	*APD	127		
1867-	*APD	127	2.24211938E-10	-2.04017124E-05	-7.94006544E-12	-3.67017304E-10	*APD	128		
1868-	*APD	128	8.50833031E-11	-9.41271355E-06	-2.26554019E-12	-3.66303210E-10	*APD	129		
1869-	*APC	129	6.16103418E-11	-4.75089109E-06	-7.06794093E-13	-3.65695252E-10	*APD	130		
1870-	*APC	130	9.57848364E-12	-8.75154455E-09	-6.68869308E-16	-3.65717678E-10	*APD	131		
1871-	*APC	131	2.26406761E-11	-1.19243032E-06	-5.21546205E-14		*APD	132		
1872-	DMI			28						
1873-					1					
1874-	*APC	133	2.32458142E-10	5.40372469E-11	-8.57098985E-06	1.85263554E-10	*APD	134		
1875-	*APD	134	6.90390412E-10	2.59093413E-10	-7.45507162E-05	2.77126322E-10	*APD	135		
1876-	*APC	135	1.57454716E-09	8.43693320E-10	-3.40474769E-04	2.44093746E-10	*APD	136		
1877-	*APD	136	7.82228726E-10	2.97939309E-10	-8.97231244E-05	2.35252040E-10	*APD	137		
1878-	*APC	137	4.48192594E-10	1.13068013E-10	-2.32516549E-05	2.32973196E-10	*APD	138		
1879-	*APC	138	3.56856895E-10	6.47934049E-11	-1.01044700E-05	2.31812125E-10	*APD	139		
1880-	*APC	139	2.62289568E-10	3.99713049E-11	-4.84869361E-06	2.30816435E-10	*APD	140		
1881-	*APD	140	1.75521925E-10	1.84414983E-11	-1.38317059E-06	2.30368157E-10	*APD	141		
1882-	*APC	141	1.25904265E-10	9.33805576E-12	-4.03157837E-07	2.29983754E-10	*APD	142		
1883-	*APD	142	2.10371442E-11	1.71461369E-13	-4.08420953E-10	2.29997799E-10	*APD	143		
1884-	*APC	143	6.6E703816E-11	2.33622496E-12	-3.18463807E-08		*APD	144		
1885-	DMI			29						
1886-					1					
1887-	*APC	145	-1.91106030E-11	5.35411974E-12	-1.33185094E-12	-1.05488519E-09	*APD	146		
1888-	*APD	146	-5.37881406E-11	2.59424981E-11	-1.14550706E-11	-1.44623521E-03	*APD	147		
1889-	*APD	147	-1.05601042E-10	7.49905229E-11	-4.83615779E-11	-1.95259257E-03	*APD	148		
1890-	*APD	148	-2.20069074E-10	2.15015297E-10	-1.84008711E-10	-1.75282895E-03	*APD	149		
1891-	*APC	149	-1.10309470E-10	7.34660527E-11	-4.48929227E-11	-1.70644675E-03	*APD	150		
1892-	*APC	150	-7.84338150E-11	3.95379718E-11	-1.84185146E-11	-1.68540305E-03	*APD	151		
1893-	*APC	151	-5.57035050E-11	2.35614061E-11	-6.48055946E-12	-1.66902132E-03	*APD	152		
1894-	*APD	152	-4.0050082E-11	1.05175643E-11	-2.29276692E-12	-1.66221359E-03	*APD	153		
1895-	*APC	153	-2.87546885E-11	5.25742397E-12	-7.09008661E-13	-1.65664707E-03	*APD	154		
1896-	*APD	154	-4.64242707E-12	9.67987084E-14	-6.68121378E-16	-1.656685150E-03	*APD	155		
1897-	*APC	155	-1.52017145E-11	1.31889902E-12	-5.21547324E-14		*APD	156		
1898-	DMI			30						
1899-					1					
1900-	*APD	157	-5.56003652E-05	-1.16320460E-11	2.77582644E-13	5.61844793E-10	*APD	158		
1901-	*APC	158	-1.56491151E-04	-5.33699502E-11	2.38793447E-12	7.70510756E-10	*APD	159		
1902-	*APC	159	-3.07551865E-04	-1.34245579E-10	1.03813880E-11	1.04023441E-09	*APD	160		
1903-	*APD	160	-6.40268670E-04	-4.42337056E-10	3.83566396E-11	9.33861211E-10	*APD	161		
1904-	*APC	161	-3.20931225E-04	-1.51137033E-10	9.35792283E-12	9.09150089E-10	*APD	162		

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CARD COUNT	1	2	3	4	5	6	7	8	9	10
1931-	*APD 162	-2.281925291E-04	-8.14418255E-11	3.84350971E-12	8.97938612E-10	*APD 163				
1932-	*APD 163	-1.73701352E-04	-4.84715462E-11	1.76777083E-12	8.89210705E-10	*APD 164				
1933-	*APD 164	-1.16521696E-04	-2.11637108E-11	4.77914746E-13	8.85583828E-10	*APD 165				
1934-	*APD 165	-8.3752556E-05	-1.08157606E-11	1.47792857E-13	8.82617979E-10	*APD 166				
1935-	*APD 166	-1.35066739E-05	-1.99137799E-13	1.39269925E-16	8.82727003E-10	*APD 167				
1936-	*APD 167	-4.42278833E-05	-2.71347615E-12	1.08716543E-14		*APD 168				
1937-	DMI	*PDU2								
1938-	*APD 169	6.77139317E-11	-1.19534352E-05	-4.23894947E-12	-1.39595280E-10	*APD 169				
1939-	*APD 170	1.90585631E-10	-5.48444368E-05	-3.64660108E-11	-3.88130195E-10	*APD 170				
1940-	*APD 171	3.75093734E-10	-1.58548429E-04	-1.5392309E-10	-5.24027932E-10	*APD 171				
1941-	*APD 172	7.75762921E-10	-4.54558758E-04	-5.85741677E-10	-4.70414818E-10	*APD 172				
1942-	*APD 173	3.90655570E-10	-1.55312897E-04	-1.4290466E-10	-4.57965998E-10	*APD 173				
1943-	*APD 174	2.77911694E-10	-8.36920372E-05	-5.86940219E-11	-4.52319515E-10	*APD 175				
1944-	*APD 175	2.11845378E-10	-4.18107504E-05	-2.69955308E-11	-4.47923032E-10	*APD 174				
1945-	*APD 176	1.41908096E-10	-2.22349336E-05	-7.29820891E-12	-4.46096049E-10	*APD 177				
1946-	*APD 177	1.02027234E-10	-1.11145964E-05	-2.25093682E-12	-4.44602133E-10	*APD 178				
1947-	*APD 178	1.64493419E-11	-2.04639946E-07	-2.12678326E-15	-4.44656979E-10	*APD 179				
1948-	*APD 179	5.36637329E-11	-2.78844800E-06	-1.66020409E-13		*APD 180				
1949-	DMI	*PDU2								
1950-	*APD 181	1.61520158E-10	2.47442344E-11	-2.57645934E-05	9.75156206E-11	*APD 181				
1951-	*APD 182	4.26463975E-10	1.13510665E-10	-2.21642655E-05	1.97705421E-10	*APD 182				
1952-	*APD 183	8.39228825E-10	3.28203464E-10	-9.35711659E-05	2.71132006E-10	*APD 183				
1953-	*APD 184	1.74483735E-09	5.40960421E-10	-3.54017379E-04	3.66064734E-10	*APD 184				
1954-	*APD 185	8.74598618E-10	3.21505711E-10	-8.68582138E-05	3.28612915E-10	*APD 185				
1955-	*APD 186	6.21869667E-10	1.73246689E-10	-3.56745877E-05	3.19917204E-10	*APD 186				
1956-	*APD 187	4.73364681E-10	1.03110964E-10	-1.64080411E-05	3.15972137E-10	*APD 187				
1957-	*APD 188	3.17540660E-10	4.60274735E-11	-4.43539670E-06	3.12900816E-10	*APD 188				
1958-	*APD 189	2.28201364E-10	2.30077901E-11	-1.37177994E-06	3.11624504E-10	*APD 189				
1959-	*APD 190	3.68079035E-11	4.23615353E-13	-1.29267197E-09	3.10591116E-10	*APD 190				
1960-	*APD 191	1.20528254E-10	5.77223425E-12	-1.00308210E-07	3.10619108E-10	*APD 191				
1961-	DMI	*PDU2								
1962-	*APD 193	-1.36652318E-11	1.69439116E-12	-2.94617358E-13	-4.60750423E-04	*APD 193				
1963-	*APD 194	-3.78297393E-11	7.61203476E-12	-2.51416255E-12	-9.26979119E-04	*APD 194				
1964-	*APD 195	-7.02242843E-11	2.69690668E-11	-1.02184447E-11	-1.24113099E-04	*APD 195				
1965-	*APD 196	-1.27839711E-10	9.384561184E-11	-3.48972808E-11	-1.56078463E-03	*APD 196				
1966-	*APD 197	-2.93252027E-10	1.83305089E-10	-1.70857259E-10	-2.09462736E-03	*APD 197				
1967-	*APD 198	-1.78667185E-10	8.45712667E-11	-6.39039238E-11	-1.90204685E-04	*APD 198				
1968-	*APD 199	-1.25782093E-10	4.59777555E-11	-2.71396100E-11	-1.82928541E-03	*APD 199				
1969-	*APD 200	-7.55616906E-11	1.89202509E-11	-6.54989390E-12	-1.78166432E-03	*APD 200				
1970-	*APD 201	-5.62169927E-11	9.24096155E-12	-2.00388491E-12	-1.76539063E-03	*APD 201				
1971-	*APD 202	-9.80077268E-12	1.69938011E-13	-1.86393830E-15	-1.75287202E-03	*APD 202				
1972-	*APD 203	-2.95107688E-11	2.31590528E-12	-1.45953779E-13	-1.75333186E-03	*APD 203				
1973-	DMI	*PDU2								
1974-	*APD 205	-3.05910511E-05	-4.07573888E-12	6.76054907E-14	2.54593679E-10	*APD 205				
1975-	*APD 206	-8.45643226E-05	-1.83583149E-11	5.76967293E-13	5.12214715E-13	*APD 206				
1976-	*APD 207	-1.57135320E-04	-5.01990394E-11	2.34484348E-12	6.85803636E-10	*APD 207				
1977-	*APD 208	-2.85771909E-04	-1.29533897E-10	8.39793684E-12	8.62432348E-10	*APD 208				
1978-	*APD 209	-6.55086711E-04	-4.33099334E-10	3.92064020E-11	1.15741439E-10	*APD 209				
1979-	*APD 210	-3.95838202E-04	-2.03430231E-10	1.46639506E-11	1.01079613E-09	*APD 210				
1980-	*APD 211	-2.61172339E-04	-1.10601112E-10	6.22769458E-12	9.84482436E-10	*APD 211				
1981-										
1982-										
1983-										
1984-										
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1991-										
1992-										
1993-										
1994-										
1995-										

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
1351-	*APC	212	-1.77851616E-04	-4.52708010E-11	1.50299391E-12	9.75490133E-10	*APD	213		
1352-	*APD	213	-1.25890598E-04	-2.22282331E-11	4.5982278E-13	9.68573000E-10	*APD	214		
1353-	*APC	214	-2.01357907E-05	-4.08773980E-13	4.27509175E-16	9.68826797E-10	*APD	215		
1354-	*APC	215	-6.55681527E-05	-5.57074786E-12	3.34918386E-14		*APD	216		
1355-	DMI	*POU2								
1356-	*APD	217	3.55855201E-11	-4.35144921E-06	-9.78670270E-13	-1.17782423E-10	*APD	217		
1357-	*APD	218	5.54738875E-11	-1.96011920E-05	-8.35224282E-12	-3.17272431E-10	*APD	218		
1358-	*APC	219	1.64839907E-10	-5.335948348E-05	-3.35444584E-11	-3.98995955E-10	*APD	219		
1359-	*APC	220	3.36156436E-19	-1.38296411E-04	-1.21570198E-10	-5.35453237E-10	*APD	220		
1360-	*APC	221	7.70585161E-10	-4.62397002E-04	-5.67559555E-10	-4.86376717E-10	*APD	221		
1361-	*APC	222	4.70333594E-10	-2.17191594E-04	-2.12278375E-10	-4.67623273E-10	*APD	222		
1362-	*APC	223	3.30745875E-10	-1.18082899E-04	-9.01533431E-11	-4.55449900E-10	*APD	223		
1363-	*APC	224	2.09208692E-10	-4.33332260E-05	-2.17576374E-11	-4.51289672E-10	*APD	224		
1364-	*APD	225	1.46896418E-10	-2.37319036E-05	-6.65657803E-12	-4.48089555E-10	*APD	225		
1365-	*APD	226	2.26659421E-11	-4.26426149E-07	-6.18870732E-15	-4.48207249E-10	*APD	226		
1366-	*APD	227	7.75990244E-11	-5.94759967E-05	-4.849334503E-13		*APD	227		
1367-	DMI	*POU2								
1368-	*APC	229	6.73795064E-11	8.71053230E-12	-6.22620917E-07	7.59218935E-11	*APD	228		
1369-	*APC	230	2.41541009E-10	3.92347921E-11	-5.31354913E-06	1.52746399E-10	*APD	229		
1370-	*APC	231	4.48825421E-10	1.07283710E-10	-2.15951491E-05	2.04511935E-10	*APD	230		
1371-	*APC	232	6.16249957E-10	2.76835443E-10	7.73417996E-05	2.57183830E-10	*APD	231		
1372-	*APC	233	1.87112370E-09	9.25635592E-10	-3.61076090E-04	3.45149909E-10	*APD	232		
1373-	*APC	234	1.14205800E-09	4.34764225E-10	-1.35045520E-04	3.13515436E-10	*APD	233		
1374-	*APC	235	8.63112243E-10	2.36372921E-10	-9.73547004E-05	3.01427105E-10	*APD	234		
1375-	*APC	236	5.07997422E-10	9.67512459E-11	-1.38420046E-05	2.93580271E-10	*APD	235		
1376-	*APC	237	3.55581032E-10	4.75054440E-11	-4.23848529E-06	2.90898639E-10	*APD	236		
1377-	*APC	238	5.7513F825E-11	8.73617964E-13	-3.93719546E-09	2.68835844E-10	*APD	237		
1378-	*APC	239	1.88424817E-10	1.19056154E-11	-3.02447113E-07	2.88911561E-10	*APD	238		
1379-	DMI	*POU2								
1380-	*APC	241	-7.31885646E-12	3.00114317E-13	-1.16063300E-13	-3.31033487E-04	*APD	241		
1381-	*APC	242	-2.01004630E-11	1.31919049E-12	-9.84228324E-13	-6.64598774E-04	*APD	242		
1382-	*APD	243	-3.65602527E-11	3.55715978E-12	-3.87247352E-12	-8.84429086E-04	*APD	243		
1383-	*APD	244	-6.21290256E-11	8.03111359E-12	-1.3109007E-11	-1.09337433E-03	*APD	244		
1384-	*APC	245	-1.24213168E-10	2.51594410E-11	-5.57117524E-11	-1.36908656E-03	*APD	245		
1385-	*APD	246	-2.27478206E-10	6.04517463E-11	-1.70091163E-10	-1.67131494E-03	*APD	246		
1386-	*APD	247	-1.37523653E-10	2.83937816E-11	-6.44301695E-11	-1.50491484E-03	*APD	247		
1387-	*APC	248	-7.71195607E-11	5.79603985E-12	-1.25242672E-11	-1.41614815E-03	*APD	248		
1388-	*APD	249	-5.34254863E-11	4.67471114E-12	-3.68106847E-12	-1.39395823E-03	*APD	249		
1389-	*APD	250	-6.45667113E-12	8.55378051E-14	-3.31264718E-15	-1.37811201E-03	*APD	250		
1390-	*APC	251	-2.77237538E-11	1.16635954E-12	-2.61812653E-13	-1.37869305E-03	*APD	251		
1391-	DMI	*POU2								
1392-	*APD	253	-1.69524574E-05	-1.35072214E-12	9.36476577E-15	1.70238421E-10	*APD	252		
1393-	*APD	254	-4.65581397E-05	-8.25987689E-12	7.91414771E-14	3.41778605E-10	*APD	253		
1394-	*APD	255	-6.47298070E-05	-2.19366192E-11	3.12457146E-13	4.54829285E-10	*APD	254		
1395-	*APD	256	-1.46211540E-04	-5.32283800E-11	1.05772956E-12	5.62282221E-10	*APD	255		
1396-	*APC	257	-2.67711396E-04	-1.55131047E-10	4.42681264E-12	7.04070802E-10	*APD	256		
1397-	*APD	258	-5.24901335E-04	-3.72848641E-10	1.37240950E-11	8.59495808E-10	*APD	257		
1398-	*APD	259	-3.16542584E-04	-1.75102613E-10	5.19865834E-12	7.73922402E-10	*APD	258		
1399-	*APD	260	-1.77625867E-04	-6.04111206E-11	1.01054148E-12	7.2827297E-10	*APD	259		
1400-	*APC	261	-1.23747559E-04	-2.88294356E-11	2.97013282E-13	7.16861459E-10	*APD	260		
1401-										

SORTED BULK DATA ECHD

CARD	1	2	3	4	5	6	7	8	9	10
COUNT										
2091-	*APD 262	-1.95879402E-05	-5.27502575E-13	2.67286540E-16	7.09011516E-10	*APD 263				
2092-	*APD 263	-6.42157688E-05	-7.19281752E-12	2.11248052E-14						*APD 264
2093-	DMI	*PDU2								
2094-	*APD 265	2.6689337E-11	-1.86453326E-06	-3.34134521E-13	-2.20252316E-10	*APD 265				
2095-	*APD 266	5.68200070E-11	-8.32129091E-06	-2.83349559E-12	-2.93105540E-10	*APD 266				
2096-	*APD 267	1.03405062E-10	-2.20997172E-05	-1.11484006E-11	-3.62351260E-10	*APD 267				
2097-	*APD 268	1.72438458E-10	-5.36241278E-05	-3.7737141E-11	-4.53721947E-10	*APD 268				
2098-	*APD 269	3.51125795E-10	-1.56284441E-04	-1.6046115E-10	-5.53684494E-10	*APD 269				
2099-	*APD 270	6.43035625E-10	-3.75620788E-04	-4.89675189E-10	-4.98738384E-10	*APD 270				
2100-	*APD 271	3.68752364E-10	-1.76404501E-04	-1.85487444E-10	-4.69320582E-10	*APD 271				
2101-	*APD 272	2.1601603E-10	-6.38602713E-05	-3.60560887E-11	-4.61966687E-10	*APD 272				
2102-	*APD 273	1.51023194E-10	-2.90427704E-05	-1.05974240E-11	-4.56715110E-10	*APD 273				
2103-	*APD 274	2.39053083E-11	-5.31424519E-07	-9.53677445E-15	-4.56908057E-10	*APD 274				
2104-	*APD 275	7.82695476E-11	-7.24625535E-06	-7.53732255E-13						
2105-	DMI	*PDU2								
2106-	*APC 277	4.67615113E-11	3.72877857E-12	-2.02375475E-07	6.96450814E-11	*APD 277				
2107-	*APC 278	1.28425562E-10	1.56412856E-11	-1.71616466E-06	1.39823806E-10	*APD 278				
2108-	*APC 279	2.33717934E-10	4.41960357E-11	-6.75223912E-06	1.86072227E-10	*APD 279				
2109-	*APC 280	4.02309606E-10	1.07239981E-10	-2.28578293E-05	2.30031522E-10	*APD 280				
2110-	*APC 281	7.93620503E-10	3.12544657E-10	-9.71775907E-05	2.88037594E-10	*APD 281				
2111-	*APC 282	1.45340029E-09	7.51183782E-10	-2.96581769E-04	3.51622509E-10	*APD 282				
2112-	*APC 283	6.76664919E-10	3.52781582E-10	-1.12344598E-04	3.16614068E-10	*APD 283				
2113-	*APC 284	4.52736967E-10	1.2171155E-10	-2.1831174E-05	2.97938785E-10	*APD 284				
2114-	*APC 285	3.41345174E-10	5.40810677E-11	-6.41854876E-06	2.93270297E-10	*APD 285				
2115-	*APC 286	5.40312101E-11	1.06276706E-12	-5.77614401E-09	2.89936519E-10	*APD 286				
2116-	*APC 287	1.77132195E-10	1.44914740E-11	-4.56513476E-07	2.90058866E-10	*APD 287				
2117-	DMI	*PDU2								
2118-	*APD 289	-5.57510635E-12	3.39901447E-13	-4.57792373E-14	-3.14907869E-04	*APD 289				
2119-	*APD 290	-1.52589330E-11	1.50912182E-12	-3.86646281E-13	-6.31507486E-04	*APD 290				
2120-	*APD 291	-2.74787137E-11	2.94226753E-12	-1.48701971E-12	-8.37838569E-04	*APD 291				
2121-	*APD 292	-4.62181265E-11	9.22871935E-12	-4.82489222E-12	-1.02819676E-03	*APD 292				
2122-	*APD 293	-8.40191666E-11	2.45637904E-11	-1.89407101E-11	-1.25327823E-03	*APD 293				
2123-	*APD 294	-1.32281963E-10	5.10095299E-11	-5.15592599E-11	-1.43286469E-03	*APD 294				
2124-	*APD 295	-2.37626007E-10	1.16520264E-10	-1.47247325E-10	-1.72149623E-03	*APD 295				
2125-	*APD 296	-1.69879418E-10	3.46310633E-11	-2.47247325E-10	-1.50175502E-03	*APD 296				
2126-	*APC 297	-7.25542266E-11	1.57342588E-11	-7.86146041E-12	-1.45737106E-03	*APD 297				
2127-	*APD 298	-1.13297771E-11	2.94701082E-13	-7.30228793E-15	-1.43006259E-03	*APD 298				
2128-	*APD 299	-3.71613573E-11	3.39713020E-12	-5.72212687E-13	-1.43108750E-03	*APD 299				
2129-	DMI	*PDU2								
2130-	*APD 301	-1.27824287E-05	1.08541995E-12	-9.37890783E-16	1.45395945E-10	*APD 301				
2131-	*APD 302	-3.45852158E-05	-4.11913641E-12	-7.92131999E-15	2.91572766E-10	*APD 302				
2132-	*APC 303	-6.36023424E-05	-1.25889915E-11	-3.04443562E-14	3.86860988E-10	*APD 303				
2133-	*APD 304	-1.65967483E-04	-2.94704122E-11	-9.88487720E-14	4.74724704E-10	*APD 304				
2134-	*APD 305	-1.92636508E-04	-7.34596416E-11	-3.88043167E-13	5.78650239E-10	*APD 305				
2135-	*APD 306	-3.02291716E-04	-1.62890673E-10	-1.05630695E-12	6.1567023E-10	*APD 306				
2136-	*APC 307	-5.35650412E-04	-3.72082360E-10	-3.01667280E-12	7.94830868E-10	*APD 307				
2137-	*APD 308	-2.51927075E-04	-1.10614305E-10	-5.65815244E-13	6.93467062E-10	*APD 308				
2138-	*APC 309	-1.67267164E-04	-5.02609343E-11	-1.61059096E-13	6.73150862E-10	*APD 309				
2139-	*APC 310	-2.59563674E-05	-9.39146781E-13	-1.49603833E-16	6.60273169E-10	*APD 310				
2140-	*APC 311	-8.52024095E-05	-1.24129184E-11	-1.17230647E-14	6.60746347E-10	*APD 311				
2141-										
2142-										
2143-										
2144-										
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C-2

CARD SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2051-	DMI									
2052-	*APD	313	1.56131635E-11	-1.11919144E-06	-1.58855568E-13	-2.07454234E-10	*APD	313		
2053-	*APD	314	4.21228867E-11	-4.96907796E-06	-1.34167590E-12	-3.75251599E-10	*APD	314		
2054-	*APC	315	7.69845538E-11	-1.29806831E-05	-5.16001217E-12	-3.37766703E-10	*APD	315		
2055-	*APC	316	1.29434546E-10	-3.03873530E-05	-1.67425379E-11	-4.11709777E-10	*APD	316		
2056-	*APC	317	2.35256671E-10	-8.0900097E-05	-6.57259394E-11	-4.70705031E-10	*APD	317		
2057-	*APD	318	3.7C457443E-10	-1.67958831E-04	-1.78912468E-10	-5.65522296E-10	*APD	318		
2059-	*APC	319	4.5427308E-10	-3.33665552E-04	-5.10953289E-10	-4.93401986E-10	*APD	319		
2053-	*APC	320	3.07718739E-10	-1.14055932E-04	-5.58352148E-11	-4.78952655E-10	*APD	320		
2060-	*APC	321	2.64309361E-10	-5.14247398E-05	-2.72795397E-11	-4.59784656E-10	*APD	321		
2061-	*APD	322	3.17C45556E-11	-9.37433811E-07	-2.53392007E-14	-4.70121275E-10	*APD	322		
2062-	*APD	323	1.54070932E-10	-1.27991316E-05	-1.95559932E-12					
2063-	DMI	*PDL2								
2064-	*APD	325	3.41151274E-11	2.14799665E-12	-9.49745527E-08	1.12832894E-10	*APD	325		
2065-	*APC	326	9.33723793E-11	9.53680711E-12	-8.02144427E-07	1.49734017E-10	*APD	326		
2065-	*APD	327	1.6R147524E-10	2.49129190E-11	-3.08500239E-06	1.83741564E-10	*APD	327		
2057-	*APD	328	2.82817547E-10	5.3283347E-11	-1.00998223E-05	2.23965790E-10	*APD	328		
2063-	*APD	329	5.14129184E-10	1.55267327E-10	-3.92947841E-05	2.56058508E-10	*APD	329		
2063-	*APC	330	8.05458500E-10	3.22351701E-10	-1.06865919E-04	3.07638137E-10	*APD	330		
2070-	*APC	331	1.42960244E-09	7.36342765E-10	-3.05482186E-04	2.68405298E-10	*APD	331		
2071-	*APC	332	6.72372824E-10	2.18896649E-10	-5.72967401E-05	2.60545141E-10	*APD	332		
2072-	*APC	333	4.4420678E-10	9.46636318E-11	-1.63095392E-05	2.58557797E-10	*APD	333		
2073-	*APC	334	6.92752106E-11	1.79915111E-12	-1.51494781E-08	2.55740984E-10	*APD	334		
2074-	*APC	335	2.2739749CE-10	2.45644755E-11	-1.18712433E-06					
2075-	DMI	*PDL2								
2075-	*APC	337	-2.0283644CE-12	1.60874460E-13	-1.12963241E-14	-4.66326019E-04	*APD	337		
2075-	*APD	338	-5.5343533CE-12	7.10717238E-13	-9.46177815E-14	-6.17195852E-04	*APD	338		
2078-	*APD	339	-5.67753195E-12	1.82779746E-12	-3.54026324E-13	-7.53247179E-04	*APD	339		
2073-	*APC	340	-1.62829056E-11	4.13998328E-12	-1.08847046E-12	-9.03021311E-04	*APD	340		
2089-	*APD	341	-2.79112705E-11	1.01063347E-11	-3.8144269E-12	-9.97483085E-04	*APD	341		
2081-	*APD	342	-3.8582864E-11	1.75851728E-11	-8.36324152E-12	-1.11112604E-03	*APD	342		
2092-	*APD	343	-5.77075192E-11	3.44097107E-11	-2.30460234E-11	-1.46357669E-03	*APD	343		
2094-	*APD	344	-1.42840675E-10	1.76418943E-10	-1.42840675E-10	-1.42840675E-10	*APD	344		
2044-	*APD	345	-7.6567261E-11	5.05100277E-11	-3.88633465E-11	-1.23030120E-03	*APD	345		
2085-	*APD	346	-1.10508538E-11	9.28335339E-13	-5.80583758E-14	-1.23278913E-03	*APD	346		
2085-	*APC	347	-3.64363817E-11	1.26521319E-11	-4.08094014E-12					
2087-	DMI	*PDL2								
2089-	*APD	349	-6.55082911E-06	-3.82674632E-13	8.07145530E-16	1.26886029E-10	*APD	349		
2090-	*APD	350	-1.76728115E-05	-1.63059385E-12	6.79069363E-15	3.36436212E-10	*APD	350		
2090-	*APC	351	-3.19005921E-05	-4.34780944E-12	2.540093694E-14	4.10598444E-10	*APD	351		
2091-	*APD	352	-5.25674930E-05	-9.34759670E-12	7.81122602E-14	4.92241137E-10	*APD	352		
2092-	*APC	353	-9.01425811E-05	-2.40401171E-11	2.73761424E-13	5.43735945E-10	*APD	353		
2093-	*APD	354	-1.2582112E-04	-4.20680157E-11	6.00227442E-13	6.05680173E-10	*APD	354		
2094-	*APD	355	-1.86372883E-04	-8.28023899E-11	1.65400679E-12	7.97802491E-10	*APD	355		
2095-	*APC	356	-4.61330252E-04	-3.24615890E-10	1.01924727E-11	7.06434244E-10	*APD	356		
2095-	*APD	357	-2.45762756E-04	-1.20149002E-10	2.64540075E-12	6.70866617E-10	*APD	357		
2097-	*APC	358	-3.56890945E-05	-2.20824747E-12	4.16683249E-15	6.71999123E-10	*APD	358		
2093-	*APC	359	-1.17675356E-04	-3.00958147E-11	2.90734830E-13					
2094-	DMI	*PDL2								
2100-	*APC	361	8.42521445E-12	-3.99951679E-07	-3.38406637E-14	-1.80758353E-10	*APD	361		
2100-										

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
2101-	*APD 362	2.29880281E-11	-1.72274304E-06	-2.64708997E-13	-2.39238628E-10	*APD 363					
2102-	*APD 363	4.10282919E-11	-4.43049157E-06	-1.06527981E-12	-2.91975111E-10	*APD 364					
2103-	*APC 364	6.76343148E-11	-1.00348670E-05	-3.27525607E-12	-3.50030893E-10	*APD 365					
2104-	*APC 365	1.15935025E-10	-2.44972907E-05	-1.14778178E-11	-3.86648713E-10	*APD 366					
2105-	*APC 366	1.61822250E-10	-4.28689214E-05	-2.51653423E-11	-4.30697034E-10	*APD 367					
2106-	*APD 367	2.39695594E-10	-8.43770395E-05	-6.93464591E-11	-5.67314640E-10	*APD 368					
2107-	*APC 368	5.92342042E-10	-3.30789248E-04	-4.27333058E-10	-5.02343056E-10	*APD 369					
2108-	*APC 369	3.16027165E-10	-1.22433863E-04	-1.10920373E-10	-4.76922946E-10	*APD 370					
2109-	*APC 370	4.59019073E-11	-2.25024178E-06	-1.74700693E-13	-4.77856199E-10	*APD 371					
2110-	*APC 371	1.51345755E-10	-3.06681468E-05	-1.21894500E-11		*APD 372					
2111-	DMI										
2112-	*APC 373	1.82853455E-11	7.66725930E-13	-2.06847695E-08	3.76383885E-11	*APD 373					
2113-	*APC 374	4.58912162E-11	3.38726961E-12	-1.74025502E-07	7.58033913E-11	*APD 374					
2114-	*APC 375	8.50441887E-11	8.71126175E-12	-6.51141875E-07	1.00327927E-10	*APD 375					
2115-	*APC 376	1.46787556E-10	1.97306199E-11	-2.00136700E-06	1.46790136E-10	*APD 376					
2116-	*APC 377	2.51615173E-10	4.91667345E-11	-7.01570207E-06	1.62146283E-10	*APD 377					
2117-	*APC 378	3.51204621E-10	8.42873826E-11	-1.53820583E-05	1.80618492E-10	*APD 378					
2118-	*APC 379	5.20222976E-10	1.65902680E-10	-4.23873280E-05	2.37910802E-10	*APD 379					
2119-	*APC 380	1.26773747E-09	6.50399956E-10	-2.61202923E-04	2.10664181E-10	*APD 380					
2120-	*APC 381	6.65998365E-10	2.40730103E-10	-6.77989739E-05	2.00003944E-10	*APD 381					
2121-	*APC 382	9.56214777E-11	4.42443998E-12	-1.96783716E-07	2.00395381E-10	*APD 382					
2122-	*APC 383	3.26467475E-10	6.02999040E-11	-7.45067973E-06		*APD 383					
2123-	DMI										
2124-	*APD 385	-1.31670369E-12	5.38706789E-14	-2.26677176E-15	-1.48492822E-04	*APD 385					
2125-	*APD 386	-3.58751657E-12	2.37598461E-13	-1.90964594E-14	-2.97342194E-04	*APD 386					
2126-	*APC 387	-6.37895252E-12	6.07493873E-13	-7.10383358E-14	-3.93114285E-04	*APD 387					
2127-	*APD 388	-1.04408400E-11	1.36269641E-12	-2.16499236E-13	-4.78747068E-04	*APD 388					
2128-	*APC 389	-1.76201415E-11	3.26764310E-12	-7.50599659E-13	-5.71027165E-04	*APD 389					
2129-	*APD 390	-2.40702874E-11	5.55734625E-12	-1.58100182E-12	-6.26603840E-04	*APD 390					
2130-	*APC 391	-3.41712492E-11	1.04153361E-11	-4.21933929E-12	-6.88333530E-04	*APD 391					
2131-	*APD 392	-6.76672535E-11	3.32606859E-11	-2.37043400E-11	-8.27057520E-04	*APD 392					
2132-	*APD 393	-1.55176150E-10	1.09664181E-10	-1.09990114E-10	-1.07740774E-03	*APD 393					
2133-	*APD 394	-1.65240004E-11	1.40304601E-12	-1.13111337E-13	-9.01979161E-04	*APD 394					
2134-	*APC 395	-5.58528224E-11	2.00576777E-11	-8.63439703E-13	-9.08433335E-04	*APD 395					
2135-	DMI										
2136-	*APC 397	-3.04290370E-06	-1.26943378E-13	4.93270486E-16	7.37993000E-11	*APD 397					
2137-	*APC 398	-8.25075088E-06	-5.59690340E-13	4.15556397E-15	1.47775875E-10	*APD 398					
2138-	*APD 399	-1.47417595E-05	-1.43099508E-12	1.54586058E-14	1.95373491E-10	*APD 399					
2139-	*APC 400	-2.41287780E-05	-3.20992972E-12	4.71122537E-14	2.37932118E-10	*APD 400					
2140-	*APD 401	-4.07201442E-05	-7.67717016E-12	1.63336840E-13	2.83794099E-10	*APD 401					
2141-	*APC 402	-5.56264567E-05	-1.10907209E-11	3.44040822E-13	3.11451168E-10	*APD 402					
2142-	*APC 403	-7.89697369E-05	-2.45340692E-11	9.18167452E-13	3.42094131E-10	*APD 403					
2143-	*APD 404	-1.56841157E-04	-7.83479531E-11	5.15937236E-12	4.11038314E-10	*APD 404					
2144-	*APD 405	-3.58661204E-04	-2.58321808E-10	2.39348680E-11	5.35658623E-10	*APD 405					
2145-	*APD 406	-3.81869613E-05	-3.30502466E-12	2.4614083E-14	4.48273640E-10	*APD 406					
2146-	*APD 407	-1.25075866E-04	-4.72473172E-11	1.87892497E-12	4.51482407E-10	*APD 407					
2147-	DMI										
2148-	*APC 409	3.70873211E-12	-1.26598252E-07	-6.84359253E-15	-4.77224232E-11	*APD 409					
2149-	*APD 410	1.01048794E-11	-5.58158661E-07	-5.76539694E-14	-9.55595048E-11	*APD 410					
2150-	*APC 411	1.75674470E-11	-1.42710451E-06	-2.14471399E-13	-1.26339568E-10	*APD 411					
2151-											

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
2151-	*APD 412	2.94084757E-11	-3.20120216E-06	-6.53631500E-13	-1.83516022E-10	*APD 413				
2152-	*APD 413	4.96302582E-11	-7.67624260E-06	-2.26612132E-11	-2.01377179E-10	*APD 414				
2153-	*APD 414	6.7758267CE-11	-1.30551389E-05	4.77319313E-12	-2.21215768E-10	*APD 415				
2154-	*APC 415	5.62493973E-11	-2.44673720E-05	-1.2385793E-11	-2.65798494E-10	*APD 416				
2155-	*APD 416	1.91160185E-10	-7.81349372E-05	-7.15806997E-11	-3.46384477E-10	*APD 417				
2155-	*APC 417	4.37681038E-10	-2.57619424E-04	-3.32070371E-10	-2.89876789E-10	*APD 418				
2155-	*APD 418	4.65427974E-11	-3.27603081E-06	-3.41493760E-13	-2.91951796E-10	*APD 419				
2159-	*APD 419	1.573194CEE-10	-4.7118E541E-05	-2.60680505E-11		*APD 420				
2159-	DMI	*PDU2	52							
2160-	*APD 421	8.30554708E-12	2.49046429E-13	-4.13671231E-09	2.62975336E-11	*APD 421				
2161-	*APD 422	2.6305363E-11	1.09361131E-12	-3.4498119E-08	6.96191160E-11	*APD 422				
2162-	*APC 423	4.02392841E-11	2.79615480E-12	-1.29640455E-07	8.47844156E-11	*APD 423				
2163-	*APD 424	6.45862204E-11	6.37217896E-12	-3.95097288E-07	1.01126879E-10	*APD 425				
2164-	*APD 425	1.11150214E-10	1.50402052E-11	-1.36979088E-06	1.10969303E-10	*APD 426				
2165-	*APC 426	1.51838652E-10	2.55791777E-11	-2.88522733E-06	1.21901392E-10	*APD 427				
2165-	*APD 427	2.15556781E-10	4.79394024E-11	-7.70002407E-06	1.46468906E-10	*APD 428				
2167-	*APD 428	4.28115543E-10	1.53091345E-10	-4.32680392E-05	1.90875899E-10	*APD 429				
2169-	*APC 429	5.76871872E-10	5.04758901E-10	-2.0072913E-04	1.59737279E-10	*APD 430				
2153-	*APC 430	1.04235634E-10	6.45796473E-12	-2.06423964E-07	1.60880670E-10	*APD 431				
2170-	*APC 431	3.52227056E-10	9.23209148E-11	-1.5757213E-05		*APD 432				
2171-	DMI	*PDU2	53							
2172-	*APC 433	-4.22660487E-13	8.05245085E-15	-7.95171370E-17	-9.02599568E-05	*APD 433				
2173-	*APD 434	-1.16149017E-12	3.54999131E-14	-6.6914147E-16	-1.80666000E-04	*APD 434				
2174-	*APD 435	-2.06131552E-12	9.07466918E-14	-2.49732008E-15	-2.38649518E-04	*APD 435				
2175-	*APC 436	-3.32203721E-12	2.01469240E-13	-7.55678750E-15	-2.90161464E-04	*APD 436				
2175-	*APD 437	-5.62167044E-12	4.97386932E-13	-2.59410786E-14	-3.44839180E-04	*APD 437				
2177-	*APC 438	-7.618E42CEE-12	8.25232135E-13	-5.33566077E-13	-4.10821289E-04	*APD 438				
2177-	*APD 439	-1.06166811E-11	1.53090127E-12	-1.45726150E-13	-4.78375936E-04	*APD 439				
2178-	*APD 440	-1.56205615E-11	4.95947374E-12	-1.23632007E-12	-5.52370911E-04	*APD 441				
2180-	*APC 441	-2.40668327E-11	1.19374493E-11	-4.09704649E-12	-7.52235297E-04	*APD 442				
2191-	*APD 442	-2.81122764E-11	4.07907822E-12	-5.09925219E-13	-8.49073054E-04	*APD 443				
2191-	*APC 443	-1.30192440E-10	9.07331010E-11	-7.16866494E-11		*APD 444				
2191-	DMI	*PDU2	54							
2194-	*APD 445	-9.02823622E-07	-1.35113607E-14	0.78801101E-08	3.22532001E-11	*APD 445				
2194-	*APC 446	-2.67587257E-05	-6.8303231E-14	-1.50512725E-17	6.45584949E-11	*APD 446				
2195-	*APC 447	-4.74891385E-05	-1.74804779E-13	-5.59433261E-17	8.52782424E-11	*APD 447				
2196-	*APC 448	-7.74955156E-06	-3.91941633E-13	-1.69978059E-16	1.03685352E-10	*APD 448				
2197-	*APC 449	-1.25743956E-05	-9.38849692E-13	-5.93503421E-16	1.23221774E-10	*APD 449				
2197-	*APD 450	-1.75517926E-05	-1.58963901E-12	-1.20017242E-15	1.34655967E-10	*APD 450				
2197-	*APC 451	-2.44589019E-05	-2.94896746E-12	-1.27783029E-15	1.46801543E-10	*APD 451				
2191-	*APD 452	-4.56631678E-05	-9.55147940E-12	-2.70020749E-14	1.70941344E-10	*APD 452				
2192-	*APD 453	-7.84841104E-05	-2.29950364E-11	-9.21956583E-14	1.97382444E-10	*APD 453				
2193-	*APD 454	-6.47658303E-05	-7.85760459E-12	-1.14699614E-14	2.68801204E-10	*APD 454				
2194-	*APC 455	-2.99940817E-04	-1.74778650E-10	-1.61697652E-12	3.03404857E-10	*APD 455				
2195-	DMI	*PDU2	55							
2196-	*APD 457	9.73857200E-13	-1.93262757E-08	-2.81835237E-16	-3.16246473E-11	*APD 457				
2196-	*APD 458	2.65146152E-12	-8.52015205E-08	-2.37166259E-15	-6.33004621E-11	*APD 458				
2197-	*APC 459	4.76580095E-12	-2.17796449E-07	-8.81592230E-15	-8.36163232E-11	*APD 459				
2197-	*APD 460	7.67489157E-12	-4.84131618E-07	-2.67838831E-14	-1.01664714E-10	*APD 460				
2197-	*APD 461	1.265603391E-11	-1.16975207E-06	-9.19441384E-14	-1.20822380E-10	*APD 461				
2200-										

SORTED BULK DATA E C H D

CARD	1	2	3	4	5	6	7	8	9	10
2201-	*APC	462	1.73916714E-11	-1.98059793E-06	-1.89114295E-13	-1.43940651E-10	*APD	463		
2202-	*APC	463	2.42358633E-11	-3.67423945E-06	-5.16504049E-13	-1.67610023E-10	*APD	464		
2203-	*APD	464	4.52465981E-11	-1.19005808E-05	-4.38194793E-12	-1.93535826E-10	*APD	465		
2204-	*APC	465	7.77691283E-11	-2.86504510E-05	-1.45213520E-11	-2.63562727E-10	*APD	466		
2205-	*APD	466	6.41749848E-11	-9.78998833E-06	-1.80735114E-12	-2.97492031E-10	*APD	467		
2206-	*APD	467	2.97204483E-10	-2.17763896E-04	-2.54791077E-10		*APD	468		
2207-	DMI	*PDU2		56		2.54315180E-11		*APD	469	
2208-	*APC	469	2.28767266E-12	2.53942307E-14	-1.85954196E-10	5.09042114E-11	*APD	470		
2209-	*APC	470	6.22850382E-12	1.11952602E-13	-1.56481583E-09	6.72415595E-11	*APD	471		
2210-	*APC	471	1.10538254E-11	2.86179012E-13	-5.81670179E-09	8.17555091E-11	*APD	472		
2211-	*APC	472	1.80289533E-11	6.41661312E-13	-1.76171872E-08	9.71614713E-11	*APD	473		
2212-	*APC	473	2.01598843E-11	1.53702398E-12	-6.06642629E-08	1.06175707E-10	*APD	474		
2213-	*APD	474	4.08545003E-11	2.60245384E-12	-1.24776643E-07	1.15752463E-10	*APD	475		
2214-	*APC	475	5.69320563E-11	4.82785666E-12	-3.40786813E-07	1.34786599E-10	*APD	476		
2215-	*APD	476	1.06288034E-10	1.56370472E-11	-2.89118725E-06	1.55639296E-10	*APD	477		
2216-	*APC	477	1.82683765E-10	3.76459697E-11	-9.58111659E-05	2.11948806E-10	*APD	478		
2217-	*APC	478	1.50752383E-10	1.24637942E-11	-1.19248125E-06	2.39233522E-10	*APD	479		
2218-	*APC	479	6.58158195E-10	2.96136004E-10	-1.68119982E-04		*APD	480		
2219-	DMI	*PDU2		57		-2.53214821E-05		*APD	481	
2220-	*APD	481	-4.34748435E-14	1.59099218E-16	-2.48905264E-19	-5.06831857E-05	*APD	482		
2221-	*APD	482	-1.14360454E-13	7.01396220E-16	-2.09371242E-18	-6.69473811E-05	*APD	483		
2222-	*APD	483	-2.10029638E-13	1.79289537E-15	-7.78061883E-18	-8.13927618E-05	*APD	484		
2223-	*APD	484	-3.42481085E-13	4.01975071E-15	-2.36120376E-17	-9.67169472E-05	*APD	485		
2224-	*APC	485	-5.72394735E-13	9.62756095E-15	-8.07659812E-17	-1.05673025E-04	*APD	486		
2225-	*APD	486	-7.75177177E-13	1.62919943E-14	-1.64667030E-16	-1.15170551E-04	*APD	487		
2226-	*APC	487	-1.07885405E-12	3.01842291E-14	-4.53599908E-16	-1.33942958E-04	*APD	488		
2227-	*APC	488	-2.00520415E-12	9.79404817E-14	-4.32183413E-15	-1.53862522E-04	*APD	489		
2228-	*APC	489	-3.36189323E-12	2.24792240E-13	-1.36911893E-14	-3.43215652E-04	*APD	490		
2229-	*APD	490	-3.00014180E-11	5.54264534E-12	-1.07365939E-12	-2.11034421E-04	*APD	491		
2230-	*APC	491	-5.37730189E-12	1.39808170E-12	-1.24377071E-13		*APD	492		
2231-	DMI	*PDU2		58		7.31503660E-12		*APD	493	
2232-	*APD	493	-8.42375130E-08	-3.18100259E-16	-7.95733342E-20	1.06416906E-11	*APD	494		
2233-	*APD	494	-2.29237161E-07	-1.40236624E-15	-6.69347727E-19	1.93401961E-11	*APD	495		
2234-	*APC	495	-4.06566705E-07	-3.50404091E-15	-2.40741739E-18	2.35132747E-11	*APD	496		
2235-	*APD	496	-6.02566722E-07	-8.03702449E-15	-7.54862114E-18	2.79402196E-11	*APD	497		
2236-	*APC	497	-1.11101781E-06	-1.32491829E-14	-2.58203965E-17	3.05275111E-11	*APD	498		
2237-	*APD	498	-1.50199503E-06	-3.25739530E-14	-5.26430712E-17	3.32712191E-11	*APD	499		
2238-	*APC	499	-2.09040445E-06	-6.03498371E-14	-1.45013232E-16	3.86943255E-11	*APD	500		
2239-	*APC	500	-3.82521498E-06	-1.95820624E-13	-1.41681681E-15	4.44481196E-11	*APD	501		
2240-	*APC	501	-6.51405663E-06	-4.49446361E-13	-4.18517245E-15	9.91504379E-11	*APD	502		
2241-	*APD	502	-5.81212197E-05	-1.10918759E-11	-3.43242795E-13	6.09650108E-11	*APD	503		
2242-	*APC	503	-1.81695949E-05	-2.19544685E-12	-3.97626268E-14		*APD	504		
2243-	DMI	*PDU2		59		-9.12259070E-12		*APD	505	
2244-	*APC	505	8.35858789E-14	-3.97937683E-10	-1.04592356E-19	-1.82596716E-11	*APD	506		
2245-	*APD	506	2.28652004E-13	-1.75432091E-09	-8.79790564E-18	-2.41191789E-11	*APD	507		
2246-	*APC	507	4.05740979E-13	-4.48437376E-09	-3.26943159E-17	-2.93234326E-11	*APD	508		
2247-	*APC	508	6.61614264E-13	-1.00541691E-09	-9.92177040E-17	-3.48424020E-11	*APD	509		
2248-	*APD	509	1.10769900E-12	-2.40803750E-08	-3.37386409E-16	-3.80709075E-11	*APD	510		
2249-	*APD	510	1.45750785E-12	-4.07494127E-08	-6.91946720E-16	-4.14926871E-11	*APD	511		
2250-	*APD	511	2.04166105E-12	-7.54965299E-08	-1.90607125E-15	-4.82557327E-11	*APD	512		

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2251-	*APD 512	3.8737077E-12	-2.44968021E-07	-1.81610200E-14	-5.54321727E-11	*APD 513				
2252-	*APD 513	6.49459653E-12	-5.62249113E-07	-5.50104497E-14	-1.23650618E-10	*APD 514				
2253-	*APD 514	5.75575554E-11	-1.38632222E-05	-4.51162371E-12	-7.60295259E-11	*APD 515				
2254-	*APC 515	1.81153144E-11	-2.74651302E-06	-5.22644699E-13						
2255-	DMI	*PDU2	50							
2256-	*APD 517	2.02628062E-13	4.97827099E-16	-6.69491426E-13	6.32199328E-12	*APD 517				
2257-	*APC 518	5.61655997E-13	2.19469434E-15	-5.61351565E-12	1.26540297E-11	*APD 518				
2258-	*APC 519	5.78507927E-13	5.61003473E-15	-2.09278567E-11	2.03212586E-11	*APD 519				
2259-	*APD 520	1.55623963E-12	1.25779480E-14	-6.35102526E-11	2.41472394E-11	*APD 520				
2260-	*APC 521	2.67248463E-12	3.01249809E-14	-2.17239782E-10	2.63832983E-11	*APD 522				
2261-	*APC 522	3.61295455E-12	5.09782476E-14	-4.42911929E-10	2.87545265E-11	*APD 523				
2262-	*APC 523	5.02833712E-12	5.44475075E-14	-1.22006760E-09	3.34414302E-11	*APD 524				
2263-	*APC 524	9.34587997E-12	3.06459393E-13	-1.16247882E-08	3.84147297E-11	*APD 525				
2264-	*APD 525	1.56691445E-11	7.03383749E-13	-3.52114400E-08	8.56903992E-11	*APD 526				
2265-	*APD 526	1.35830900E-10	1.73431269E-11	-2.88787032E-06	5.26687833E-11	*APD 527				
2266-	*APC 527	4.37058306E-11	3.43593730E-12	-2.34454250E-07						
2267-	DMI	*PDU2	85							
2268-	*APD 529	-2.70369144E-11	1.99262551E-11	-2.08100620E-11	-1.20195837E-04	*APD 529				
2269-	*APC 530	-3.21422056E-12	1.37790875E-13	8.43977557E-13	-9.6471910E-05	*APD 530				
2270-	*APC 531	-4.16605610E-13	5.20681622E-14	-1.31727853E-13	-9.51672700E-05	*APD 531				
2271-	*APD 532	-5.25815116E-14	-5.97173813E-15	2.21068848E-14	-9.50905669E-05	*APD 532				
2272-	*APC 533	-7.61053682E-15	9.48673089E-16	-4.61601785E-15	-9.50860267E-05	*APD 533				
2273-	*APC 534	-3.37688721E-15	2.96414733E-16	-6.63096546E-16	-9.50857357E-05	*APD 534				
2274-	*APC 535	-1.50011653E-15	7.37675676E-17	-1.0873727E-16	-9.50856629E-05	*APD 535				
2275-	*APD 536	-6.66189928E-16	1.44579995E-17	-5.25070926E-18	-9.50856494E-05	*APD 536				
2276-	*APC 537	-5.02587980E-16	9.39387091E-18	-1.93039140E-18	-9.50856484E-05	*APD 537				
2277-	*APC 538	-3.05601017E-16	3.32456627E-18	4.20605975E-19	-9.50856484E-05	*APD 538				
2278-	*APC 539	-1.23128524E-16	2.64219014E-19	1.38646793E-19						
2279-	DMI	*PDU2	86							
2280-	*APD 541	-7.17205585E-05	-5.01005765E-11	6.64255747E-12	5.91104249E-11	*APD 541				
2281-	*APD 542	-8.52677549E-06	-3.46447480E-13	-2.69641893E-13	4.74433132E-11	*APD 542				
2282-	*APC 543	-1.10512428E-06	-1.30914919E-13	4.20856759E-14	4.68017708E-11	*APD 543				
2283-	*APC 544	-1.35482455E-07	1.50147364E-14	-7.64290292E-15	4.67640510E-11	*APD 544				
2284-	*APC 545	-2.01894127E-08	8.18524774E-15	1.47476004E-15	4.67618166E-11	*APD 545				
2285-	*APD 546	-8.95783714E-09	-7.45273004E-16	2.11852410E-16	4.67616362E-11	*APD 546				
2286-	*APC 547	-3.57534485E-09	-2.0559508E-16	3.47520545E-17	4.67616362E-11	*APD 547				
2287-	*APD 548	-1.66803482E-09	-3.63514777E-17	1.67754627E-18	4.67616224E-11	*APD 548				
2288-	*APD 549	-1.37586364E-09	-2.48761401E-17	6.16739860E-19	4.67616224E-11	*APD 549				
2289-	*APC 550	-8.10665535E-10	-8.35895291E-18	-1.34379161E-19	4.67616224E-11	*APD 550				
2290-	*APC 551	-3.52148044E-10	-6.64325604E-19	-4.42961907E-20	4.67616224E-11	*APD 551				
2291-	DMI	*PDU2	87							
2292-	*APD 553	8.77142525E-11	-5.11736434E-05	-6.20154483E-11	-4.00639938E-11	*APD 553				
2293-	*APC 554	1.04277039E-11	-1.57867004E-07	2.511138E-12	-3.21562360E-11	*APD 554				
2294-	*APD 555	1.25156643E-12	-1.33718913E-07	-3.92558273E-13	-3.17214033E-11	*APD 555				
2295-	*APC 556	1.70587015E-13	1.53363295E-08	6.58799187E-14	-3.16958404E-11	*APD 556				
2296-	*APC 557	2.46904141E-14	-2.43633624E-09	-1.37590556E-14	-3.16943277E-11	*APD 557				
2297-	*APD 558	1.05554203E-14	-7.61237740E-10	-1.97607429E-10	-3.16942306E-11	*APD 558				
2298-	*APC 559	4.64673622E-15	-2.04855149E-10	-3.24153156E-16	-3.16942024E-11	*APD 559				
2299-	*APC 560	1.96662543E-15	-3.71300761E-11	-1.56474779E-17	-3.16942024E-11	*APD 560				
2300-	*APC 561	1.03376054E-15	-2.54089527E-11	-5.75270202E-18	-3.16942024E-11	*APD 561				

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
*APO 562	9.9144338E-16	-8.53798889E-12	1.25343505E-18	-3.16942028E-11	*APD 563						
*APO 563	4.31900825E-16	-6.78554489E-13	4.13177078E-17		*APD 564						
DMI	*PDU2	88	45		1.8112625E-11	*APD 565					
*APD 565	1.56197267E-10	1.00586012E-10	-3.73244854E-05	1.45364935E-11	*APD 566						
*APC 566	2.33244396E-11	6.95556405E-13	1.52185112E-06	1.43399277E-11	*APD 567						
*APC 567	3.02315291E-12	2.62835489E-13	-2.37530297E-07	1.43283684E-11	*APD 568						
*APD 568	3.81565222E-13	-3.01448150E-14	3.98628330E-08	1.43276857E-11	*APD 569						
*APC 569	5.52269649E-14	4.78981596E-15	-8.32355343E-09	1.43276415E-11	*APD 570						
*APD 570	2.45048631E-14	1.49627544E-15	-1.19568888E-09	1.43276302E-11	*APD 571						
*APC 571	1.06858099E-14	4.02659558E-16	-1.96139605E-10	1.43276276E-11	*APD 572						
*APC 572	4.39890258E-15	7.29922116E-17	-9.46802722E-12	1.43276276E-11	*APD 573						
*APC 573	3.65435762E-15	4.99431919E-17	-3.48036143E-12	1.43276268E-11	*APD 574						
*APC 574	2.82176383E-15	1.67821182E-17	7.58432217E-13	1.43276264E-11	*APD 575						
*APC 575	5.66066064E-16	1.33375429E-18	2.50006396E-13		*APD 576						
DMI	*PDU2	89	45		-1.29952619E-04	*APD 577					
*APD 577	-4.51490406E-12	1.85611671E-13	1.08764733E-12	-4.26348253E-04	*APD 578						
*APD 578	-3.95453809E-11	2.40320958E-11	-2.26132862E-11	-3.93760623E-04	*APD 579						
*APC 579	-4.75310589E-12	9.32580906E-14	9.75600677E-13	-3.92258680E-04	*APD 580						
*APC 580	-6.01806907E-13	7.08841623E-14	-1.58283814E-13	-3.92215559E-04	*APD 581						
*APD 581	-8.64382893E-14	-8.08771453E-15	2.88959564E-14	-3.92210204E-04	*APD 582						
*APD 582	-3.82707138E-14	-2.58453850E-15	4.19975537E-15	-3.92208807E-04	*APD 583						
*APC 583	-1.65852773E-14	7.02448447E-16	6.84589560E-16	-3.92209574E-04	*APD 584						
*APC 584	-6.86192213E-15	-1.27538849E-16	3.37237168E-17	-3.92209574E-04	*APD 585						
*APD 585	-5.87008111E-15	-8.75003166E-17	-2.27288033E-17	-3.92208574E-04	*APD 586						
*APC 586	-3.45871547E-15	-2.9595872E-17	-2.44005377E-18	-3.92208574E-04	*APD 587						
*APC 587	-1.50674244E-15	-2.33809383E-18	-8.39379200E-19		*APD 588						
DMI	*PDU2	90	45		6.62022243E-11	*APD 589					
*APC 589	-1.14854274E-05	-4.94610561E-13	-2.6020233E-13	2.14139553E-10	*APD 590						
*APD 590	-1.00599165E-04	-6.27450314E-11	5.40986613E-12	2.00594930E-10	*APD 591						
*APC 591	-1.20913865E-05	-2.43590521E-13	-2.33396798E-13	1.99850206E-10	*APD 592						
*APD 592	-1.53053151E-06	-1.85070439E-13	3.78668586E-14	1.99807809E-10	*APD 593						
*APC 593	-2.15889614E-07	2.11160900E-14	-6.91288999E-15	1.99805117E-10	*APD 594						
*APD 594	-9.87356519E-08	6.74792663E-15	-1.00472422E-15	1.99804437E-10	*APD 595						
*APD 595	-4.32087077E-08	1.83401162E-15	-1.63777050E-16	1.99804284E-10	*APD 596						
*APC 596	-1.74555887E-08	3.32999192E-16	-8.06785813E-18	1.99804250E-10	*APD 597						
*APD 597	-1.45003902E-08	2.28413044E-16	-3.04516120E-18	1.99804243E-10	*APD 598						
*APD 598	-8.75855974E-09	7.72550031E-17	5.83743581E-19	1.99804229E-10	*APD 599						
*APC 599	-3.83298726E-09	6.10449283E-18	2.00807916E-19		*APD 600						
DMI	*PDU2	91	45		-4.10607381E-11	*APD 601					
*APD 601	1.41835094E-11	-4.76678849E-07	3.33260503E-12	-1.32816189E-10	*APD 602						
*APD 602	1.24231264E-10	-6.17180776E-05	-6.92882141E-11	-1.24415381E-10	*APD 603						
*APC 603	1.49218056E-11	-2.39601594E-07	7.98928764E-12	-1.23953472E-10	*APD 604						
*APD 604	1.89056756E-12	-1.82041333E-07	-4.84909273E-13	-1.23927174E-10	*APD 605						
*APC 605	2.71544668E-13	2.07704787E-08	8.85395515E-14	-1.23925509E-10	*APD 606						
*APD 606	1.20226908E-13	6.63748523E-07	1.28682567E-14	-1.23925092E-10	*APD 607						
*APD 607	5.33590167E-14	1.90399407E-09	2.09761547E-15	-1.23924995E-10	*APD 608						
*APD 608	2.15566636E-14	3.27538805E-10	1.03331111E-16	-1.23924981E-10	*APD 609						
*APD 609	1.79067271E-14	2.24714053E-10	3.90016585E-17	-1.23924969E-10	*APD 610						
*APD 610	1.08655049E-14	7.59905611E-11	-7.47644219E-18	-1.23924954E-10	*APD 611						
*APC 611	4.72340984E-15	6.00457965E-12	-2.57189808E-18		*APD 612						

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CARD COUNT	1	2	3	4	5	6	7	8	9	10
DMI										
*PDU2	92									
*APD 613	3.1225604E-11	9.38450706E-13	2.05001379E-06	7.35333044E-11	*APD 613					
*APD 614	2.7350033E-10	1.21506152E-10	-4.26218512E-05	6.8882194E-11	*APD 614					
*APD 615	3.28730376E-11	4.71714519E-13	1.83882639E-06	6.86264934E-11	*APD 615					
*APD 616	4.316216714E-12	3.58390021E-13	-2.98335579E-07	6.86119356E-11	*APD 616					
*APD 617	5.97817369E-13	-4.08914405E-14	5.44635128E-08	6.86110058E-11	*APD 617					
*APD 618	2.64684704E-13	1.10674077E-14	7.91576227E-09	6.86107837E-11	*APD 618					
*APD 619	1.17472167E-13	-3.55157484E-15	1.29032429E-09	6.86107282E-11	*APD 619					
*APD 620	4.74578665E-14	-6.44835958E-16	6.35629605E-11	6.86107143E-11	*APD 620					
*APD 621	3.544224380E-14	-4.42400861E-16	2.39914209E-11	6.86107143E-11	*APD 621					
*APD 622	2.3920813E-14	-1.49604799E-16	-4.59004771E-12	6.86107005E-11	*APD 622					
*APD 623	1.04208058E-14	-1.18213879E-17	-1.58207388E-12	*APD 623						
DMI										
*PDU2	93									
*APD 625	-5.90129126E-13	7.53504247E-14	-1.83465710E-13	-3.9755118E-04	*APD 625					
*APD 626	-4.79321791E-12	1.00230913E-13	1.05436666E-12	-6.90924935E-04	*APD 626					
*APD 627	-3.97599453E-11	2.55541177E-11	-2.42453835E-11	-6.64273044E-04	*APD 627					
*APD 628	-4.85092541E-12	6.19417400E-15	1.12354458E-12	-6.62860693E-04	*APD 628					
*APD 629	-6.162029025E-13	8.01759917E-14	-1.94055817E-13	-6.62773844E-04	*APD 629					
*APD 630	-2.93200360E-13	2.35673907E-14	-2.93247970E-14	-6.62752427E-04	*APD 630					
*APD 631	-1.30179071E-13	6.16344202E-15	-4.66723285E-15	-6.62747771E-04	*APD 631					
*APD 632	-5.25562364E-14	1.11145630E-15	-2.51397261E-16	-6.62747305E-04	*APD 632					
*APD 633	-4.36919178E-14	7.54853529E-16	-1.02771447E-16	-6.62746374E-04	*APD 633					
*APD 634	-2.65124192E-14	2.48011270E-14	1.21455144E-17	-6.62745908E-04	*APD 634					
*APD 635	-1.15454535E-14	2.0123261E-17	4.83892635E-18	*APD 635						
DMI										
*PDU2	94									
*APD 637	-1.50302913E-06	-1.80226439E-13	4.90579189E-14	6.51873278E-11	*APD 637					
*APD 638	-1.22080892E-05	-2.39736616E-13	-2.81933060E-13	2.00227238E-10	*APD 638					
*APD 639	-1.01266618E-04	-6.13606388E-11	6.48311006E-12	3.47976536E-10	*APD 639					
*APD 640	-1.17132349E-05	-1.47915908E-14	-3.00457684E-13	3.34553496E-10	*APD 640					
*APD 641	-1.66815457E-06	-1.91768368E-13	5.18396519E-14	3.33842207E-10	*APD 641					
*APD 642	-7.46766773E-07	-5.63695039E-14	7.84238668E-15	3.33798544E-10	*APD 642					
*APD 643	-3.31559647E-07	-1.47419910E-14	1.24799780E-15	3.3378786E-10	*APD 643					
*APD 644	-1.73559986E-07	-2.65842900E-15	6.72225464E-17	3.33785444E-10	*APD 644					
*APD 645	-1.11281111E-07	-1.80549117E-15	2.74806200E-17	3.33785222E-10	*APD 645					
*APD 646	-6.75257752E-08	-5.95117225E-16	3.24765584E-18	3.33784778E-10	*APD 646					
*APD 647	-2.54158866E-08	-4.81317076E-17	-1.29390652E-18	3.33784556E-10	*APD 647					
DMI										
*PDU2	55									
*APD 649	1.88006468E-12	-1.81865005E-07	-5.37301540E-13	-4.31900765E-11	*APD 649					
*APD 650	1.52704932E-11	-2.41916212E-07	3.08784161E-12	-1.32661215E-10	*APD 650					
*APD 651	1.26669397E-10	-6.19185012E-05	-7.10055525E-11	-2.30553049E-10	*APD 651					
*APD 652	1.46515022E-11	-1.49260586E-09	3.29073054E-12	-2.21659649E-10	*APD 652					
*APD 653	2.16912798E-12	-1.93511880E-07	-5.68315902E-13	-2.21189373E-10	*APD 653					
*APD 654	9.34093081E-13	-5.68919942E-04	-8.58928813E-14	-2.21152291E-10	*APD 654					
*APD 655	4.14731563E-13	-1.48760222E-04	-1.36645605E-14	-2.21150709E-10	*APD 655					
*APD 656	1.67563934E-13	-2.68259859E-09	-7.3624745E-16	-2.21150515E-10	*APD 656					
*APD 657	1.35156055E-13	-1.82190618E-09	-3.0097846E-16	-2.21150251E-10	*APD 657					
*APD 658	8.44646616E-14	-6.00528294E-10	3.5569001E-17	-2.21150098E-10	*APD 658					
*APD 659	3.67948774E-14	-4.85693152E-11	1.41713774E-17	*APD 659						
DMI										
*PDU2	96									
*APD 661	4.10399579E-12	3.57648047E-13	-3.23054167E-07	2.14549767E-11	*APD 661					
*APD 662				6.59003963E-11	*APD 662					

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2401	*APD 662	2.3533960E-11	4.75742167E-13	1.85557427E-06	1.14528859E-10	*APD 663				
2402	*APD 663	2.7650659E-10	1.21766305E-10	-4.26923070E-05	1.10110990E-10	*APD 664				
2403	*APD 664	3.1582775E-11	2.93529578E-14	1.97856116E-06	1.09876885E-10	*APD 665				
2404	*APC 665	4.6040155E-12	3.80552252E-13	-3.41701650E-07	1.09862508E-10	*APD 666				
2405	*APC 666	2.0390330E-12	1.11861692E-13	-5.16433829E-08	1.09858959E-10	*APD 667				
2406	*APC 667	5.0531781E-13	2.92545529E-14	-8.21826518E-09	1.09858178E-10	*APD 668				
2407	*APC 668	3.6577535E-13	5.27548383E-15	4.42671233E-10	1.09858031E-10	*APD 669				
2408	*APC 669	3.03651182E-13	3.59280160E-15	-1.80964285E-10	1.09857942E-10	*APD 670				
2409	*APD 670	1.84378012E-13	1.18097357E-15	2.13863233E-11	1.09857873E-10	*APD 671				
2410	*APD 671	8.03195401E-14	9.55914346E-17	8.52058528E-12		*APD 672				
2411	*PDUZ		97							
2412	*APC 673	-7.9164100E-14	-7.60700978E-15	3.07563728E-14	-3.96340154E-14	*APD 674				
2413	*APD 674	-6.45030145E-13	6.70313414E-14	-1.70878444E-13	-6.64709521E-14	*APD 675				
2414	*APD 675	-4.66758065E-12	5.44353855E-15	1.12243201E-12	-9.63376136E-04	*APD 676				
2415	*APC 676	-4.23266283E-11	2.25914842E-11	-2.42432741E-11	-9.37140314E-14	*APD 677				
2416	*APD 677	-5.61423217E-12	1.77149040E-13	1.20256843E-12	-9.35625518E-04	*APD 678				
2417	*APD 678	-2.42484765E-12	7.39973793E-15	1.93933216E-13	-9.35265096E-14	*APD 679				
2418	*APD 679	-1.06547583E-12	-3.79927481E-15	3.02904769E-14	-9.35137330E-04	*APD 680				
2419	*APD 680	-4.29234447E-13	-8.72367703E-16	1.60848740E-15	-9.35177784E-14	*APD 681				
2420	*APD 681	-2.54270840E-13	-7.83014621E-16	7.21795103E-16	-9.35164746E-04	*APD 682				
2421	*APD 682	-2.15522983E-13	-4.19831457E-16	-2.69554231E-17	-9.35157994E-04	*APD 683				
2422	*APD 683	-9.40774151E-14	-2.20625613E-17	-2.72408046E-17		*APD 684				
2423	*PDUZ		98							
2424	*APD 685	-1.85825926E-07	2.11608210E-14	-7.84923071E-15	1.99850206E-10	*APD 686				
2425	*APD 686	-1.54670215E-06	-1.86464613E-13	4.36093287E-14	3.35167893E-10	*APD 687				
2426	*APD 687	-1.17207746E-05	-1.51425808E-14	-2.86452286E-13	4.85771867E-10	*APD 688				
2427	*APC 688	-1.01494035E-04	-6.28439245E-11	6.18704567E-12	4.72542672E-10	*APD 689				
2428	*APD 689	-1.34622351E-05	-4.92784687E-13	3.06903591E-13	4.71778838E-10	*APD 690				
2429	*APD 690	-5.8148512E-06	-2.05914573E-14	-4.94854063E-14	4.71597206E-10	*APD 691				
2430	*APC 691	-2.56487976E-06	1.95686401E-14	-7.73237404E-15	4.71557904E-10	*APD 692				
2431	*APC 692	-1.02925060E-06	2.42671064E-15	-4.10496730E-16	4.71553241E-10	*APD 693				
2432	*APD 693	-8.54293489E-07	2.17815285E-15	-1.84206968E-16	4.71546580E-10	*APD 694				
2433	*APC 694	-5.17756746E-07	1.16786741E-15	5.34746585E-18	4.71543027E-10	*APD 695				
2434	*APC 695	-2.26588606E-07	6.13725663E-17	6.93803615E-18		*APD 696				
2435	*PDUZ		99							
2436	*APD 697	2.37323102E-13	2.04716706E-08	8.92165573E-14	-1.28765831E-10	*APD 698				
2437	*APD 698	1.92379080E-12	-1.83916654E-07	-4.95675938E-13	-2.15952714E-10	*APD 699				
2438	*APD 699	1.46546974E-11	-1.49356651E-08	3.25587729E-12	-3.12988524E-10	*APD 700				
2439	*APD 700	1.26894648E-10	-6.19852071E-05	-7.03217052E-11	-3.04464676E-10	*APD 701				
2440	*APC 701	1.68313835E-11	-4.86051078E-07	3.48835284E-12	-3.03972625E-10	*APD 702				
2441	*APD 702	7.26565688E-12	-2.03002217E-08	5.6245168E-13	-3.03855607E-10	*APD 703				
2442	*APD 703	3.19428164E-12	1.34242269E-06	8.78883554E-14	-3.03830294E-10	*APD 704				
2443	*APD 704	1.28280386E-12	2.39355114E-09	4.65920000E-15	-3.03827185E-10	*APD 705				
2444	*APD 705	1.66809440E-12	2.14839969E-09	2.09374856E-15	-3.03822967E-10	*APD 706				
2445	*APD 706	6.47374183E-13	1.15190923E-09	-6.07864857E-17	-3.03820746E-10	*APD 707				
2446	*APD 707	2.82642835E-13	6.05339529E-11	-7.90188169E-17		*APD 708				
2447	*PDUZ		100							
2448	*APD 709	5.16567800E-13	-4.08268917E-14	5.42505241E-09	6.86264934E-11	*APD 710				
2449	*APD 710	4.20899677E-12	3.53784197E-13	-3.01408908E-07	1.15043254E-10	*APD 711				
2450	*APD 711	2.18554030E-11	2.92176711E-14	1.07993536E-06	1.66809094E-10	*APD 712				

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2451-	*APC	712	2.74192624E-10	1.21257615E-10	-4.27621999E-05	1.62266311E-10	*APD	713		
2452-	*APD	713	3.6634390CE-11	9.50829693E-13	2.12118539E-02	1.62004049E-10	*APD	714		
2453-	*APD	714	1.5E227876E-11	3.97120047E-14	3.42021908E-07	1.61941855E-10	*APD	715		
2454-	*APC	715	6.9E252017E-12	-2.03922333E-14	5.3428537E-08	1.61928151E-10	*APD	716		
2455-	*APD	716	2.80C671E-12	-4.68234731E-15	2.83717760E-09	1.61926522E-10	*APD	717		
2456-	*APC	717	2.32476365E-12	-4.20275387E-15	1.27315959E-09	1.61924289E-10	*APD	718		
2457-	*APD	718	1.40855628E-12	-2.2E340495E-15	-3.69628356E-11	1.61923308E-10	*APD	719		
2458-	*APD	719	6.1388090CE-13	-1.18418634E-16	-4.80494949E-11		*APD	720		
2459-	DMI		*PDU2	101	45					
2460-	*APD	721	-7.92679521E-15	1.06535463E-15	-4.43844587E-15	-9.02180036E-05	*APD	721		
2461-	*APD	722	-6.40536956E-14	-6.74246694E-15	2.15597295E-14	-2.76254914E-04	*APD	722		
2462-	*APC	723	-4.86784549E-13	6.22168875E-14	-1.33971713E-13	-4.62425104E-04	*APD	723		
2463-	*APD	724	-3.8E357994E-12	1.56171950E-13	8.31123094E-13	-6.5343906E-04	*APD	724		
2464-	*APC	725	-3.2E513558E-11	2.3E237974E-11	-2.07137640E-11	-8.63470370E-04	*APD	725		
2465-	*APD	726	-1.34985747E-11	6.10399233E-12	3.47943896E-12	-8.39418266E-04	*APD	726		
2466-	*APD	727	-5.87E15267E-12	1.48229133E-12	-5.08603739E-13	-8.38512089E-04	*APD	727		
2467-	*APD	728	-2.33945502E-12	2.63556429E-13	3.85114371E-14	-8.3844456E-04	*APD	728		
2468-	*APD	729	-1.9290277E-12	1.75192356E-13	-1.81718957E-14	-8.38259304E-04	*APD	729		
2469-	*APC	730	-1.17276241E-12	5.45177409E-14	1.33943557E-16	-8.30185661E-04	*APD	730		
2470-	*APC	731	-5.11002590E-13	4.64361080E-15	1.62884608E-16		*APD	731		
2471-	DMI		*PDU2	102	45					
2472-	*APD	733	-1.91548430E-08	-2.33723770E-15	1.44846937E-15	4.62801325E-11	*APD	732		
2473-	*APD	734	-1.54880411E-07	1.47920176E-14	-7.93587918E-15	1.41715750E-10	*APD	733		
2474-	*APC	735	-1.17629861E-06	-1.36495034E-13	4.37208219E-14	2.37215807E-10	*APD	734		
2475-	*APD	736	-9.3850566E-06	-3.42619271E-13	-2.71231713E-13	3.35155681E-10	*APD	735		
2476-	*APD	737	-7.89010373E-05	-5.18272647E-11	6.75980539E-12	4.42944124E-10	*APD	736		
2477-	*APC	738	-3.26180601E-05	-1.33912976E-11	1.13549274E-12	4.30605773E-10	*APD	737		
2478-	*APC	739	-1.41045666E-05	-3.25191610E-12	1.65979589E-13	4.30140812E-10	*APD	738		
2479-	*APD	740	-5.6E221897E-06	-5.78205561E-13	1.25679632E-14	4.30085523E-10	*APD	739		
2480-	*APC	741	-4.6E574217E-06	-3.44349453E-13	5.93027756E-15	4.30010894E-10	*APD	740		
2481-	*APD	742	-2.83394274E-06	-1.19604196E-13	-4.37116249E-17	4.29973612E-10	*APD	741		
2482-	*APD	743	-1.23482056E-06	-1.01874245E-14	-5.31563359E-17		*APD	742		
2483-	DMI		*PDU2	103	45					
2484-	*APC	745	2.36636543E-14	-2.31180830E-07	1.27315991E-14	-3.91230849E-11	*APD	743		
2485-	*APD	746	1.91337347E-13	1.46297944E-04	6.18436509E-14	-9.82407348E-11	*APD	744		
2486-	*APC	747	1.4E218479E-12	-1.34998113E-07	-3.94295189E-13	-1.54400548E-10	*APD	745		
2487-	*APD	748	1.15547417E-11	-3.38861810E-07	2.38435998E-12	-2.18148236E-10	*APD	746		
2488-	*APC	749	5.74733627E-11	-5.12588886E-05	-5.94170139E-11	-2.88306046E-10	*APD	747		
2489-	*APD	750	4.02969225E-11	-1.32444366E-05	-9.98070203E-12	-2.81739743E-10	*APD	748		
2490-	*APC	751	1.74192242E-11	-3.21625248E-06	-1.45949189E-12	-2.80275136E-10	*APD	749		
2491-	*APC	752	6.58291423E-12	-5.71804462E-07	-1.10469251E-13	-2.79972712E-10	*APD	750		
2492-	*APD	753	5.76E70719E-12	-3.80134338E-07	-5.21256859E-14	-2.79493651E-10	*APD	751		
2493-	*APD	754	3.50101805E-12	-1.18292519E-07	3.84214357E-16	-2.79867891E-10	*APD	752		
2494-	*APC	755	1.5254820CE-12	-1.00757021E-09	4.67231209E-16	-2.79863688E-10	*APD	753		
2495-	DMI		*PDU2	104	45					
2496-	*APD	757	5.17541942E-14	4.58813692E-15	-7.89741961E-09	1.67492686E-11	*APD	754		
2497-	*APD	758	4.18469133E-13	-2.90376176E-14	3.83610624E-08	5.12884318E-11	*APD	755		
2498-	*APC	759	2.17422416E-12	2.67947936E-13	-2.36378561E-07	8.5850930E-11	*APD	756		
2499-	*APC	760	2.52585625E-11	6.72582107E-13	1.47843384E-06	1.21206473E-10	*APD	757		
2500-	*APC	761	2.13191570E-10	1.01749003E-10	-3.68501214E-05	1.60306241E-10	*APD	758		

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CZUNT										
2501-	*APD	762	8.81324180E-11	2.62879163E-11	-6.17103685E-06	1.55840868E-10	*APD	763		
2502-	*APD	763	3.86578027E-11	6.38370693E-12	-9.64968942E-07	1.55672614E-10	*APD	764		
2503-	*APD	764	1.52743374E-11	1.13505212E-12	-6.85241730E-08	1.55652588E-10	*APD	765		
2504-	*APD	765	1.26603372E-11	7.54500954E-13	-3.23336025E-08	1.55625526E-10	*APD	766		
2505-	*APD	766	7.65698963E-12	2.34790215E-13	2.36328468E-10	1.55612037E-10	*APD	767		
2506-	*APD	767	3.33134422E-12	1.99985258E-14	2.89823721E-10		*APD	768		
2507-	DMI									
2508-	*PDU2									
2509-	*APD	769	-2.01917133E-15	1.65704897E-16	-4.13983774E-16	-5.31557689E-05	*APD	769		
2510-	*APD	770	-1.63910965E-14	-1.07259020E-15	2.01982905E-15	-1.62768163E-14	*APD	770		
2511-	*APC	771	-1.23765202E-13	9.10402193E-15	-1.30516325E-14	-3.84327490E-04	*APD	771		
2512-	*APD	772	-5.63042146E-13	3.24699264E-15	8.63822360E-14	-4.97164903E-04	*APD	772		
2513-	*APD	773	-7.74929513E-12	3.93858848E-12	-2.24291444E-12	-5.58486907E-04	*APD	773		
2514-	*APC	774	-2.12932445E-11	1.43259111E-11	-1.72526169E-11	-5.42355400E-04	*APD	774		
2515-	*APC	775	-8.15517197E-12	3.29903813E-12	-2.49696618E-12	-5.39239962E-04	*APD	775		
2516-	*APD	776	-3.16799972E-12	5.80300944E-13	-1.96190232E-13	-5.38675582E-04	*APD	776		
2517-	*APD	777	-2.55769550E-12	3.79243132E-13	-9.34936807E-14	-5.38401306E-04	*APD	777		
2518-	*APD	778	-1.54581566E-12	1.12379995E-13	5.79808346E-17	-5.38190827E-04	*APD	778		
2519-	*APD	779	-6.74673479E-13	1.00169269E-14	5.79529990E-16		*APD	779		
2520-	DMI									
2521-	*PDU2									
2522-	*APD	781	-5.66769914E-09	-4.22854729E-16	1.35092094E-16	2.71893202E-11	*APD	781		
2523-	*APD	782	-4.44031866E-09	2.73709443E-15	-6.63926235E-16	8.325563324E-11	*APD	782		
2524-	*APC	783	-3.65947300E-07	-2.32321452E-14	4.29012302E-15	1.39345230E-19	*APD	783		
2525-	*APD	784	-2.3664945E-06	-8.28582537E-15	-2.83942147E-14	1.96584499E-10	*APD	784		
2526-	*APD	785	-1.92188454E-05	-7.75403700E-12	7.32226202E-12	2.54301025E-10	*APD	785		
2527-	*APD	786	-5.28089145E-05	-3.65576319E-11	5.67100889E-13	2.85667499E-10	*APD	786		
2528-	*APD	787	-2.03246600E-05	-8.41866681E-12	8.20763162E-13	2.77416534E-10	*APD	787		
2529-	*APC	788	-7.65688644E-06	-1.48084323E-12	6.4485078E-14	2.75822476E-10	*APD	788		
2530-	*APD	789	-6.44248667E-06	-9.67772737E-13	3.07317750E-14	2.75636181E-10	*APD	789		
2531-	*APC	790	-3.82374295E-06	-2.96777184E-13	-1.93585325E-17	2.75393708E-10	*APD	790		
2532-	*APC	791	-1.67324197E-06	-2.55617467E-14	-1.90793939E-16	2.75286016E-10	*APD	791		
2533-	DMI									
2534-	*PDU2									
2535-	*APD	793	6.33516270E-15	-4.25554703E-10	-1.10835028E-15	-1.55216950E-11	*APD	793		
2536-	*APD	794	5.11134273E-14	2.75457146E-09	5.44715708E-15	-4.75289391E-11	*APD	794		
2537-	*APD	795	3.82114110E-13	-2.13804904E-08	-3.61919732E-14	-7.95486877E-11	*APD	795		
2538-	*APC	796	3.02155176E-12	-8.33873415E-09	2.32959322E-13	-1.12225146E-10	*APD	796		
2539-	*APD	797	2.43134540E-11	-7.60354821E-06	-6.04851759E-12	-1.45174150E-10	*APD	797		
2540-	*APD	798	6.68077121E-11	-3.67910689E-06	-4.65275877E-11	-1.63080410E-10	*APD	798		
2541-	*APD	799	2.57124044E-11	-8.47242245E-05	-6.73392245E-12	-1.58370220E-10	*APD	799		
2542-	*APD	800	5.53962204E-12	-1.49029893E-06	-6.73392245E-12	-1.57460222E-10	*APD	800		
2543-	*APC	801	8.15028667E-12	-9.73952410E-07	-2.52137775E-13	-1.57353838E-10	*APD	801		
2544-	*APC	802	4.6500755E-12	-2.89608537E-07	-2.52137775E-13	-1.57215330E-10	*APD	802		
2545-	*APC	803	2.11679156E-12	-2.57249651E-08	1.56365141E-16	-1.57153901E-10	*APD	803		
2546-	DMI									
2547-	*PDU2									
2548-	*APD	805	1.33671184E-14	8.53151702E-16	-6.68425981E-10	1.01219510E-11	*APD	805		
2549-	*APD	806	1.67648734E-13	-5.52236005E-15	3.29505934E-19	3.09943876E-11	*APD	806		
2550-	*APC	807	8.19338358E-13	4.88731736E-14	-2.12272369E-08	5.18749765E-11	*APD	807		
2551-	*APD	808	6.27543924E-12	1.67174627E-14	1.40492546E-07	7.31838201E-11	*APD	808		
2552-	*APD	809	5.13011300E-11	1.56445412E-11	-3.64772404E-06	9.46703965E-11	*APD	809		
2553-	*APC	810	1.40563510E-10	7.37586936E-11	-2.80597451E-05	1.06347361E-10	*APD	810		
2554-	*APD	811	5.45288000E-11	1.69854963E-11	-4.06107665E-06	1.03275777E-10	*APD	811		
2555-										

SORTED BULK DATA ECHO

CASE	COUNT	1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																																																																																																																																																																																					
*APD	812	2.09724276E-11	11	2.98774980E-12	-3.19084734E-07	1.02612974E-10	*APD	813	1.71970077E-11	1.95257873E-12	-1.52058590E-07	1.02523657E-10	*APD	814	1.02334608E-11	5.78602033E-13	9.43002898E-11	1.02482592E-10	*APD	815	4.46640728E-12	5.15733764E-14	9.42550260E-10	*APD	816	OMI	*PDUZ	109	-6.66781270E-05	*APD	817	*APD	817	-1.05140962E-15	6.28838584E-17	-8.20950156E-17	-2.04174343E-04	*APD	818	*APD	818	-2.75821254E-15	-4.11095371E-16	4.00927375E-16	-3.41714360E-04	*APD	819	*APD	819	-6.68671928E-14	3.35755157E-15	-2.52915462E-15	-4.81911469E-04	*APD	820	*APC	820	-5.14923339E-13	-2.35125801E-15	1.64353491E-14	-6.20397739E-04	*APD	821	*APC	821	-4.07628432E-12	4.04055657E-12	-3.99216684E-13	-6.80327415E-04	*APD	822	*APD	822	-5.572317724E-12	1.652226729E-12	-3.04058775E-11	-7.56511232E-04	*APD	823	*APD	823	-2.56156314E-11	1.91398564E-11	-1.93149377E-11	-7.37534834E-04	*APD	824	*APD	824	-9.11635611E-12	3.30919703E-12	-1.47427556E-12	-7.35336555E-04	*APD	825	*APC	825	-7.27579656E-12	2.10549419E-12	-6.80550055E-13	-7.32677290E-04	*APD	826	*APC	826	-4.15432532E-12	5.73591787E-13	1.85515123E-14	-7.31690321E-04	*APD	827	*APD	827	-1.82055068E-12	5.39898462E-14	7.01369369E-15	*APD	828	OMI	*PDUZ	110	3.44375778E-11	*APD	829	*APD	829	-2.75046740E-09	-1.32191191E-16	1.79450233E-17	1.05450940E-10	*APD	830	*APC	830	-2.24933388E-08	8.64183247E-16	-8.76331315E-17	1.76487019E-10	*APD	831	*APC	831	-1.70551807E-07	-7.05806805E-15	5.5284217E-16	2.48845127E-10	*APD	832	*APD	832	-1.31644538E-06	4.94269136E-15	-3.59279528E-15	3.20419913E-10	*APD	833	*APD	833	-1.04213750E-05	-2.18740477E-12	6.72641803E-14	3.51372043E-10	*APD	834	*APC	834	-2.54550864E-05	-5.77474600E-12	6.64537807E-13	3.90719013E-10	*APD	835	*APD	835	-6.54982253E-05	-4.02348153E-11	4.22289408E-12	3.80913186E-10	*APD	836	*APC	836	-3.6367403E-05	-6.95684307E-12	3.22259305E-13	3.79797971E-10	*APD	837	*APC	837	-1.86114194E-05	-4.42690674E-12	1.48761537E-13	3.78409526E-10	*APD	838	*APC	838	-1.06208918E-05	-1.20577073E-12	-4.05514652E-15	3.77899712E-10	*APD	839	*APD	839	-4.65439552E-06	-1.13494609E-13	-1.53311375E-15	*APD	840	OMI	*PDUZ	111	-2.18066121E-11	*APD	841	*APD	841	3.46065604E-15	-1.43653200E-10	-2.30659142E-16	-6.67737944E-11	*APD	842	*APD	842	2.78957630E-14	9.39114706E-10	1.12646975E-15	-1.11755369E-10	*APD	843	*APC	843	2.12010360E-11	-7.67006014E-09	-7.10606433E-15	-1.57605831E-10	*APD	844	*APC	844	1.62862450E-12	5.37126255E-09	4.61805649E-14	-2.02896824E-10	*APD	845	*APC	845	1.29243414E-11	-2.37707081E-04	-1.12106304E-12	2.22476359E-10	*APD	846	*APC	846	3.16183688E-11	-1.06277373E-05	-8.54302133E-12	-2.47411647E-10	*APD	847	*APC	847	8.12300792E-11	-4.37234994E-05	-5.42753326E-11	-2.41205500E-10	*APD	848	*APC	848	2.89044760E-11	-7.56005747E-06	-4.14221522E-12	-2.40496064E-10	*APD	849	*APD	849	2.30814395E-11	-4.81075404E-06	-1.91212844E-12	-2.39616933E-10	*APD	850	*APC	850	1.31717770E-11	-1.31031993E-06	5.21234531E-14	-2.392294140E-10	*APD	851	*APC	851	5.77226981E-12	-1.23335496E-07	1.97061029E-14	*APD	852	OMI	*PDUZ	112	1.15637065E-11	*APD	853	*APD	853	7.62576986E-15	2.90816692E-16	-1.37541450E-10	3.5409023E-11	*APD	854	*APC	854	6.14693301E-14	-1.90117858E-15	6.71710909E-10	5.92621091E-11	*APD	855	*APC	855	4.67172633E-13	1.55275505E-14	-4.23732871E-09	8.35758623E-11	*APD	856	*APD	856	3.55754847E-12	-1.04737821E-14	2.75373502E-08	1.07592390E-10	*APD	857	*APD	857	2.84792660E-11	4.81222874E-12	-6.68845019E-07	1.17986301E-10	*APD	858	*APC	858	6.56722957E-11	2.15151785E-11	-5.09418164E-06	1.31198552E-10	*APD	859	*APC	859	1.76993347E-10	8.85154589E-11	-3.23607493E-05	1.27907573E-10	*APD	860	*APC	860	6.36920658E-11	1.53048546E-11	-2.4099207E-06	1.27531374E-10	*APD	861	*APD	861	5.0668156E-11	5.73916804E-12	-1.14019713E-06	1.27065164E-10	*APD	862	*APD	862

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2601-	*APD 862	2.90244911E-11	2.65266021E-12	3.10810790E-08	1.26893981E-10	*APD 863				
2602-	*APC 863	1.27194089E-11	2.49684930E-13	1.17507000E-02		*APD 864				
2603-	DMI	*PDU2	113	45						
2604-	*APD 865	-2.3666586E-16	8.66679645E-18	-2.36809527E-18	-1.49177431E-04	*APD 866				
2605-	*APC 866	-2.71209163E-15	-5.67559191E-17	1.17024236E-17	-2.49667792E-04	*APD 867				
2606-	*APC 867	-2.06216575E-14	4.60394500E-16	-8.07200429E-17	-3.52073461E-04	*APD 868				
2607-	*APD 868	-1.5823967E-13	-4.10524894E-16	5.17013594E-16	-4.5274929E-04	*APD 869				
2608-	*APC 869	-1.24745179E-12	1.40685478E-13	-1.79111622E-14	-4.94216802E-04	*APD 870				
2609-	*APC 870	-2.9425238E-12	6.22258867E-13	-1.41555658E-13	-5.38871158E-04	*APD 871				
2610-	*APC 871	-6.5565396E-12	2.51645466E-12	-8.73541907E-13	-6.19162107E-04	*APD 872				
2611-	*APD 872	-2.58593324E-11	1.49197547E-11	-1.48222823E-11	-6.06533838E-04	*APD 873				
2612-	*APC 873	-1.87210863E-11	1.17896196E-11	-8.05198371E-12	-5.92079945E-04	*APD 874				
2613-	*APC 874	-5.12458444E-12	3.01394500E-12	-9.10210275E-13	-5.88674564E-04	*APD 875				
2614-	*APC 875	-4.07342429E-12	4.41042710E-13	3.02078986E-14		*APD 876				
2615-	DMI	*PDU2	114	45						
2616-	*APC 877	-8.23884072E-10	-1.89507211E-17	7.37395349E-19	2.41664327E-11	*APD 877				
2617-	*APD 878	-6.63942146E-09	1.24191964E-16	-3.67497582E-18	7.39997091E-11	*APD 878				
2618-	*APC 879	-5.04644067E-08	-1.00684823E-15	2.53349565E-17	1.23444168E-10	*APD 879				
2619-	*APC 880	-3.87486230E-07	8.97649519E-16	-1.62362571E-16	1.74646709E-10	*APD 880				
2620-	*APC 881	-3.05273588E-06	-3.07621387E-13	5.62473923E-15	2.24610705E-10	*APD 881				
2621-	*APC 882	-7.20088708E-06	-1.36062429E-14	4.44531566E-14	2.45157006E-10	*APD 882				
2622-	*APC 883	-1.70287967E-05	-5.50245613E-12	2.74323207E-13	2.67307954E-10	*APD 883				
2623-	*APC 884	-6.25482789E-04	-4.13697549E-11	4.65472626E-12	3.07136316E-10	*APD 884				
2624-	*APD 885	-4.58232538E-04	-2.57705459E-11	2.52848359E-12	3.00072216E-10	*APD 885				
2625-	*APD 886	-2.22291027E-06	-6.59026046E-12	2.85836356E-13	2.93702174E-10	*APD 886				
2626-	*APD 887	-9.56839663E-06	-9.64378750E-13	-9.48635227E-15	2.92012859E-10	*APD 887				
2627-	DMI	*PDU2	115	45						
2628-	*APC 889	1.02579467E-15	-1.90237549E-11	-7.89653352E-18	-1.34903549E-11	*APD 889				
2629-	*APC 890	8.34714717E-15	1.24580207E-10	3.97488565E-17	-4.13083131E-11	*APD 890				
2630-	*APC 891	6.34445633E-14	-1.01057829E-09	-2.71113859E-16	-6.91348645E-11	*APD 891				
2631-	*APD 892	4.87151443E-13	9.01104409E-10	1.73651114E-15	-9.74917785E-11	*APD 892				
2632-	*APC 893	3.82793431E-12	-3.08407103E-07	-6.01500909E-14	-1.25382815E-10	*APD 893				
2633-	*APC 894	5.05302304E-12	-1.36586821E-06	-4.75442223E-13	-1.36852307E-10	*APD 894				
2634-	*APC 895	2.14047437E-11	-5.52360510E-06	-2.93395959E-12	-1.49217402E-10	*APD 895				
2635-	*APC 896	7.86363056E-11	-4.15292016E-05	-4.9733534E-11	1.71450604E-10	*APD 896				
2636-	*APD 897	5.76284284E-11	-2.58740110E-05	-2.70827980E-11	-1.67953734E-10	*APD 897				
2637-	*APD 898	2.80726276E-11	-6.61566173E-06	-3.05711706E-12	-1.63951352E-10	*APD 898				
2638-	*APC 899	1.25323640E-11	-9.68096174E-07	1.01459043E-13	-1.63008357E-10	*APD 899				
2639-	DMI	*PDU2	116	45						
2640-	*APD 901	2.20408243E-15	3.83841715E-17	-4.85098507E-12	7.94943018E-12	*APD 901				
2641-	*APD 902	1.77620099E-14	-2.51364962E-16	2.41763137E-11	2.43481836E-11	*APD 902				
2642-	*APC 903	1.35005357E-13	2.01601070E-15	-1.66761452E-10	4.07392451E-11	*APD 903				
2643-	*APD 904	1.03661611E-12	-1.91816469E-15	1.06813315E-09	5.74491704E-11	*APD 904				
2644-	*APD 905	8.16679450E-12	6.23078737E-13	-3.70030939E-08	7.38845790E-11	*APD 905				
2645-	*APC 906	1.92640487E-11	2.75540748E-12	-2.9243247E-07	8.66432421E-11	*APD 906				
2646-	*APC 907	4.55560173E-11	1.11450762E-11	-1.80497032E-06	1.01031045E-10	*APD 907				
2647-	*APD 908	1.67331288E-10	8.37033195E-11	-3.06217118E-05	1.01031045E-10	*APD 908				
2648-	*APC 909	1.22626324E-10	5.22147663E-11	-1.66339451E-05	9.89704291E-11	*APD 909				
2649-	*APD 910	5.57361327E-11	1.31441919E-11	-1.18042486E-06	9.66119407E-11	*APD 910				
2650-	*APC 911	2.66677790E-11	1.95332379E-12	6.24071959E-08	9.60562602E-11	*APD 911				

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CARD	CMJNT	1	2	3	4	5	6	7	8	9	10
2651-	DMI	*FDU2	117				45				
2652-	*APD	913	-2.12112627E-16	3.07458484E-19	-4.64186928E-19	-9.04799235E-05	*APD	913			
2653-	*APC	914	-1.70922545E-15	-2.01857613E-17	2.37507625E-18	-1.51429820E-04	*APD	914			
2654-	*APC	915	-1.25918083E-14	1.62098882E-16	-1.77436329F-17	-2.13539504E-04	*APD	916			
2655-	*APC	916	-9.56725489E-14	-1.91019151E-16	1.24753633E-16	-2.74597434E-04	*APD	917			
2656-	*APC	917	-7.84162882E-13	4.84797376E-14	4.54447406E-15	-2.99552688E-04	*APD	918			
2657-	*APC	918	-1.82588000E-12	2.10815459E-13	-3.62728815E-14	-3.25077685E-04	*APD	919			
2658-	*APC	919	-4.21420537E-12	8.30126874E-13	-2.16329213E-13	-3.67878239E-04	*APD	920			
2659-	*APD	920	-1.42057052E-11	6.11176474E-12	-4.32943351E-12	-3.83979408E-04	*APD	921			
2660-	*APC	921	-2.08655763E-11	1.04965626E-11	-9.29728083E-12	-3.56788823E-04	*APD	922			
2661-	*APC	922	-6.65820161E-12	2.38626913E-12	-9.62833112E-13	-3.63390427E-04	*APD	923			
2662-	*APC	923	-3.74627759E-12	3.29785027E-13	3.51668021E-14		*APD	924			
2663-	DMI	*PDU2	118			45					
2664-	*APC	925	-4.15127710E-19	-7.77933339E-18	4.58875181E-20	1.32940083E-11	*APD	925			
2665-	*APC	926	-3.34514350E-09	5.10741280E-17	-2.34789789E-19	6.81290857E-11	*APD	926			
2666-	*APD	927	-2.54264054E-03	-4.19113353E-16	1.75405882E-18	9.60725666E-11	*APD	928			
2667-	*APD	928	-1.95070247E-07	4.83317635E-16	-1.23320353E-17	1.23542940E-10	*APD	929			
2668-	*APC	929	-1.57466318E-06	-1.22663766E-13	4.49247217E-16	1.34770362E-10	*APD	930			
2669-	*APD	930	-3.58127818E-06	-8.33406544E-13	3.58577846E-15	1.46614193E-10	*APD	931			
2670-	*APC	931	-8.24766636E-06	-2.10039191E-12	2.14348023E-14	1.65510466E-10	*APD	932			
2671-	*APD	932	-2.78021325E-05	-1.54630190E-11	4.27989079E-13	1.72754450E-10	*APD	933			
2672-	*APC	933	-4.07266489E-05	-2.75667544E-11	9.19048590E-13	1.65020303E-10	*APD	934			
2673-	*APC	934	-1.70233393E-05	-6.03775763E-12	9.51815666E-14	1.63491371E-10	*APD	935			
2674-	*APC	935	-7.32187571E-06	-8.34424055E-13	-3.47446096E-15		*APD	936			
2675-	DMI	*PDU2	119			45					
2676-	*APD	937	4.95190072E-16	-7.89599202E-12	-1.80680317E-19	-2.68745720E-11	*APD	937			
2677-	*APD	938	3.95020909E-15	5.18400461E-11	9.24475879E-18	-4.49780769E-11	*APD	938			
2678-	*APC	939	2.03201855E-14	-4.16283674E-10	-6.90654254E-17	-6.34260422E-11	*APD	939			
2679-	*APC	940	2.32691756E-13	4.90565598E-10	4.85591495E-16	-8.15616880E-11	*APD	941			
2680-	*APC	941	1.83067624E-12	-1.24303174E-07	-1.76809380E-14	-8.89739116E-11	*APD	942			
2681-	*APC	942	4.27196693E-12	-5.41405541E-07	-1.41188710E-13	-3.67930736E-11	*APD	943			
2682-	*APC	943	9.62283246E-12	-2.13188923E-06	-8.43387207E-13	-1.092668178E-10	*APD	944			
2683-	*APC	944	3.81640965E-11	-1.56959140E-05	-1.60913949E-11	-1.14060589E-10	*APD	945			
2684-	*APC	945	4.65912640E-11	-2.73891114E-05	-3.61897742E-11	-1.98944570E-10	*APD	946			
2685-	*APD	946	2.03064747E-11	-6.12824535E-06	-3.74773821E-12	-1.07943520E-10	*APD	947			
2686-	*APD	947	6.74591805E-12	-8.46937090E-07	1.36889552E-13		*APD	948			
2687-	DMI	*PDU2	120			45					
2688-	*APC	949	1.15642726E-15	1.54926032E-17	-1.08169897E-12	5.78678511E-12	*APD	949			
2689-	*APC	950	9.64093578E-15	-1.01714602E-16	5.53866387E-12	1.77196313E-11	*APD	950			
2690-	*APC	951	7.32806285E-14	8.16784342E-16	-4.13431749E-11	2.96560970E-11	*APD	951			
2691-	*APC	952	5.62205899E-13	-9.62531607E-16	2.90724564E-10	4.18196866E-11	*APD	952			
2692-	*APC	953	4.42309297E-12	2.44205874E-13	-1.05900355E-08	5.37773437E-11	*APD	953			
2693-	*APC	954	1.03214937E-11	1.06229394E-12	-8.45270165E-08	5.86644559E-11	*APD	954			
2694-	*APC	955	2.37703329E-11	4.18294913E-12	-5.05279331E-07	6.38200881E-11	*APD	955			
2695-	*APD	956	8.01276827E-11	3.07067402E-11	-1.00889220E-05	7.20455084E-11	*APD	956			
2696-	*APC	957	1.17377039E-10	5.48994322E-11	-2.16655462E-05	7.51987639E-11	*APD	957			
2697-	*APC	958	4.90624445E-11	1.20242410E-11	-2.24376069E-06	7.18321375E-11	*APD	958			
2698-	*APC	959	2.11305858E-11	1.66176274E-12	8.19028969E-08	7.11660143E-11	*APD	959			
2699-	DMI	*PDU2	121			45					
2700-	*APC	961	-1.21555555E-16	1.27789479E-18	1.27478820E-19	-2.82674155E-05	*APD	961			
2701-							-8.65572947E-05	*APD	962		

SORTED BULK DATA ECHO

CARD	GRUNT	1	2	3	4	5	6	7	8	9	10
2701-	*APC 962	-9.75725952E-16	-8.44334767E-16	-8.44334767E-16	-5.73856204E-19	-1.44864651E-04	*APD 963				
2702-	*APC 963	-7.44713739E-15	6.60871238E-17	2.64302496E-18	-2.04279000E-04	*APD 964					
2703-	*APC 964	-5.7644877E-14	-1.26684114E-16	-4.56510640E-18	-2.62647169E-04	*APD 965					
2704-	*APC 965	-4.48013044E-13	1.866603832E-14	4.22212514E-17	-2.86313705E-04	*APD 966					
2705-	*APC 966	-1.02664071E-12	7.72704925E-14	2.83530118E-17	-3.10610281E-04	*APD 967					
2706-	*APC 967	-2.27179213E-12	2.79671956E-13	7.44897500E-15	-3.43543012E-04	*APD 968					
2707-	*APD 968	-6.53703367E-12	1.93260165E-12	-6.1688985E-13	-3.50887189E-04	*APD 969					
2708-	*APC 969	-8.21676754E-12	2.95161378E-12	-1.21357438E-12	-3.92503804E-04	*APD 970					
2709-	*APC 970	-2.37116576E-11	1.60579189E-11	-1.34108311E-11	-3.70889436E-04	*APD 971					
2710-	*APC 971	-7.75063347E-12	1.92003184E-12	-1.01275433E-13		*APD 972					
2711-	DMI *PDU2		122		45						
2712-	*APC 973	-2.40957666E-10	-2.15019975E-18	-3.53501336E-20	4.69935757E-11	*APD 974					
2713-	*APD 974	-1.54178067E-09	1.42058601E-17	1.59132282E-19	7.86437395E-11	*APD 975					
2714-	*APC 975	-1.47559475E-08	-1.11198968E-16	-7.32911743E-19	1.10904909E-10	*APD 976					
2715-	*APC 976	-1.13099645E-07	2.13160023E-16	1.26591473E-18	1.42559610E-10	*APD 977					
2716-	*APC 977	-8.87544967E-07	-3.13981527E-14	-1.1707796E-17	1.55445157E-10	*APD 978					
2717-	*APD 978	-2.03872656E-06	-1.30018169E-13	-7.86236082E-16	1.58615147E-10	*APD 979					
2718-	*APC 979	-4.50260541E-06	-4.75573925E-13	-2.0516931E-15	1.86513969E-10	*APD 980					
2719-	*APD 980	-1.29561531E-05	-3.25181543E-12	-1.71084660E-13	1.90503335E-10	*APD 981					
2720-	*APC 981	-1.62851103E-05	-4.96641617E-12	3.36527193E-13	2.1309776E-10	*APD 982					
2721-	*APC 982	-4.69956140E-05	-2.70192202E-11	3.71884915E-12	2.01362899E-10	*APD 983					
2722-	*APD 983	-1.53614528E-05	-3.23066660E-12	-2.80833926E-14		*APD 984					
2723-	DMI *PDU2		123		45						
2724-	*APD 985	2.94367484E-16	-2.5382576E-12	3.58139903E-19	-2.20532488E-12	*APD 985					
2725-	*APD 986	2.37179432E-15	1.67705017E-11	-1.61206500E-18	-3.64257819E-11	*APD 987					
2726-	*APC 987	1.60285915E-14	-1.31264868E-10	7.4247049E-18	-5.20704174E-11	*APD 988					
2727-	*APC 988	1.38145951E-13	2.51624943E-10	-1.28241657E-17	-6.69483774E-11	*APD 989					
2728-	*APC 989	1.06458294E-12	3.70635874E-08	1.18603996E-16	-7.29809685E-11	*APD 990					
2729-	*APC 990	2.45021116E-12	-1.53477686E-07	7.96484666E-17	-7.91740970E-11	*APD 991					
2730-	*APC 991	5.49572481E-12	-5.55405433E-07	2.6275785E-14	-8.75686051E-11	*APD 992					
2731-	*APC 992	1.58253410E-11	-3.83860879E-06	-1.73294452E-12	-8.94496632E-11	*APD 993					
2732-	*APC 993	1.98517689E-11	-5.86261144E-06	-3.40913442E-12	-1.00048678E-10	*APD 994					
2733-	*APC 994	5.74029713E-11	-3.1894732E-05	-3.76732257E-11	-9.45391950E-11	*APD 995					
2734-	*APC 995	1.87613103E-11	-2.81364407E-06	-2.84950917E-13		*APD 996					
2735-	DMI *PDU2		124		45						
2736-	*APD 997	6.06732074E-16	4.9035112E-18	2.25469600E-13	1.51157836E-11	*APD 998					
2737-	*APC 998	5.32368339E-15	-3.27959775E-17	-1.01497281E-12	2.5291941E-11	*APD 999					
2738-	*APC 999	4.04666433E-14	2.56698205E-16	4.67467298E-12	3.56739083E-11	*APD1000					
2739-	*APD1000	3.10079924E-13	-4.92071297E-16	-8.07422532E-12	4.58669491E-11	*APD1001					
2740-	*APC1001	2.43443547E-12	7.24813547E-14	7.46742351E-11	4.99999347E-11	*APD1002					
2741-	*APC1002	5.58948200E-12	3.00137140E-13	5.01474837E-11	5.42429012E-11	*APD1003					
2742-	*APD1003	1.23445754E-11	1.08631245E-12	1.31764879E-08	5.99949514E-11	*APC1004					
2743-	*APC1004	3.55212665E-11	7.50668624E-12	-1.0407987E-06	6.12766227E-11	*APD1005					
2744-	*APC1005	4.40486875E-11	1.14647744E-11	-2.14642751E-06	6.25442675E-11	*APD1006					
2745-	*APD1006	1.28645642E-10	6.23728034E-11	-2.37194372E-05	6.47696619E-11	*APD1007					
2746-	*APC1007	4.21157821E-11	7.45786505E-12	-1.79124072E-07		*APD1008					
2747-	DMI *PDU2		125		45						
2748-	*APD1009	-2.18465329E-17	4.01896622E-20	1.89448465E-20	-4.11177462E-05	*APD1010					
2749-	*APC1010	-1.73609130E-16	-2.64014331E-19	-5.89301237E-20	-6.88157452E-05	*APD1011					
2750-	*APC1011	-1.31960893E-15	2.11512066E-18	4.74736959E-19	-9.70389810E-05	*APD1012					

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
2751-	*APD1012	-1.01133735E-14	-2.63446768E-19	-2.67542636E-18	-2.67542636E-18	-1.24755839E-04	*APD1013			
2752-	*APD1013	-7.54048529E-14	6.28967915E-16	2.31471473E-17	-1.35955983E-04	*APD1014				
2753-	*APD1014	-1.82617864E-13	2.72551951E-15	1.27764266E-16	-1.47352010E-04	*APD1015				
2754-	*APC1015	-4.04562251E-13	1.04171636E-14	1.25980022E-15	-1.62256372E-04	*APD1016				
2755-	*APD1016	-1.118706434E-12	1.11912216E-13	9.23095026E-15	-1.65139485E-04	*APD1017				
2756-	*APC1017	-1.423951176E-12	1.51421332E-13	1.99719120E-14	-1.76195567E-04	*APD1018				
2757-	*APC1018	-2.152268645E-12	7.59718637E-13	4.56546198E-14	-2.10159585E-04	*APD1019				
2758-	*APC1019	-1.46204437E-11	1.01905984E-11	-1.01006972E-11		*APD1020				
2759-	DMI		126							
2760-	*APC1021	-4.58718011E-11	-9.60760976E-20	-4.75037547E-21	6.54880143E-12	*APD1021				
2761-	*APC1022	-4.61837008E-10	6.31144132E-19	2.23161330E-20	2.00529870E-11	*APD1022				
2762-	*APC1023	-3.05437675E-09	5.05634002E-13	1.19939148E-19	3.35612094E-11	*AFD1023				
2763-	*APC1024	-2.3405071E-08	6.29787360E-18	6.70856867E-19	6.08430112E-11	*APD1025				
2764-	*APC1025	-1.63791201E-07	-1.50359021E-15	-5.80409557E-18	6.63052807E-11	*APD1026				
2765-	*APD1026	-4.2226927E-07	-6.51553667E-15	-3.20365860E-17	7.18630849E-11	*AFD1027				
2766-	*APC1027	-9.37229219E-07	-2.49029347E-14	3.14399261E-16	7.91318955E-11	*APD1028				
2767-	*APC1028	-2.74758586E-06	-2.57533717E-13	-2.31441350E-15	9.0537791E-11	*APD1029				
2768-	*APD1029	-3.31190656E-06	-3.85888587E-13	-5.00790451E-15	8.59251142E-11	*AFD1030				
2769-	*APC1030	-7.25723766E-06	-1.91635002E-12	1.14487921E-14	1.02493652E-19	*APD1031				
2770-	*APC1031	-2.38406058E-05	-2.43613046E-11	2.53272577E-12		*APD1032				
2771-	DMI		127							
2772-	*APC1033	6.05399359E-17	-9.58256911E-14	5.81244307E-20	-3.89726793E-12	*APD1033				
2773-	*APC1034	4.87791451E-16	6.29499111E-13	-2.73054653E-19	-1.19337725E-11	*APD1034				
2774-	*APC1035	3.70771732E-15	-5.04316120E-12	1.45653519E-18	-2.81640128E-11	*APD1035				
2775-	*APD1036	2.84156116E-14	6.28145806E-12	-8.20844579E-18	3.62083835E-11	*APD1037				
2776-	*APC1037	2.22104738E-13	-1.49967128E-09	7.10175319E-17	-3.94590471E-11	*APD1038				
2777-	*APC1039	5.113103503E-13	-6.49855636E-09	3.9192025E-16	-4.27665668E-11	*APD1039				
2778-	*APD1039	1.13792681E-12	-2.48380267E-08	3.89585589E-15	-4.70923162E-11	*APD1040				
2779-	*APC1040	3.32530772E-12	-2.66836423E-07	2.8186154E-14	-4.79290913E-11	*APD1041				
2780-	*APC1041	4.04461187E-12	-3.94882810E-07	6.12756837E-14	-5.11350406E-11	*AFD1042				
2781-	*APD1042	6.65813965E-12	-1.91161522E-06	-1.40084667E-13	-6.09251673E-11	*APD1043				
2782-	*APC1043	4.116792234E-11	-2.42978131E-05	-3.09938357E-11		*APD1044				
2783-	DMI		128							
2784-	*APC1045	1.37640093E-16	1.86316281E-19	3.93053866E-14	2.79519029E-12	*APD1045				
2785-	*APD1046	1.10910219E-15	-1.22395103E-15	-1.65059080E-13	8.55911435E-12	*AFD1046				
2786-	*APC1047	8.43032241E-15	9.20554622E-14	8.64729139E-13	1.43247589E-11	*APD1047				
2787-	*APD1048	6.46092086E-14	-1.22131993E-17	-4.98537691E-12	2.01997308E-11	*APD1048				
2788-	*APC1049	5.07278193E-13	2.91584808E-15	4.31374936E-11	2.59692962E-11	*AFD1049				
2789-	*APD1050	1.16665445E-12	1.26351057E-14	2.38103759E-10	2.63007368E-11	*APD1050				
2790-	*APC1051	2.56710154E-12	4.82932074E-14	2.36642439E-09	3.37754409E-11	*APD1051				
2791-	*APD1052	7.58356312E-12	5.19016869E-13	1.72013017E-08	3.43755996E-11	*AFD1052				
2792-	*APC1053	9.15632426E-12	7.48337427E-13	3.72200439E-08	3.66749686E-11	*APD1053				
2793-	*APC1054	2.01409445E-11	3.52236990E-12	-8.53902779E-08	4.37469256E-11	*APD1054				
2794-	*APC1055	9.34027439E-11	4.72428624E-11	-1.88238482E-05		*APD1055				
2795-	EIGR		1							
2796-	EIGG		MAX							
2797-	GRIG	5001	3001	19.96	.0	.0	3001			
2798-	GRID	5013	5001	9.000	.000	23.000	10002			
2799-	GRIC	5014	5001	9.000	22.500	23.000	10002			
2800-	GRIC	5015	5001	9.000	45.000	23.000	10002			

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
GRUNT										
2301-	GRID	5016	5001	9.000	67.500	23.000	10002			
2302-	GRID	5017	5001	9.000	90.000	23.000	10002			
2303-	GRID	5018	5001	9.000	112.500	23.000	10002			
2304-	GRID	5019	5001	9.000	135.000	23.000	10002			
2305-	GRID	5020	5001	9.000	157.500	23.000	10002			
2306-	GRID	5021	5001	9.000	180.000	23.000	10002			
2307-	GRID	5022	5001	14.200	.000	31.930	10003			
2308-	GRID	5023	5001	14.200	22.500	31.930	10003			
2309-	GRID	5024	5001	14.200	45.000	31.930	10003			
2310-	GRID	5025	5001	14.200	67.500	31.930	10003			
2311-	GRID	5030	5001	14.200	90.000	31.930	10003			
2312-	GRID	5031	5001	14.200	112.500	31.930	10003			
2313-	GRID	5032	5001	14.200	135.000	31.930	10003			
2314-	GRID	5033	5001	14.200	157.500	31.930	10003			
2315-	GRID	5034	5001	14.200	180.000	31.930	10003			
2316-	GRID	5035	5001	16.200	.000	40.380	10004			
2317-	GRID	5040	5001	16.200	22.500	40.380	10004			
2318-	GRID	5041	5001	16.200	45.000	40.380	10004			
2319-	GRID	5042	5001	16.200	67.500	40.380	10004			
2320-	GRID	5043	5001	16.200	90.000	40.380	10004			
2321-	GRID	5044	5001	16.200	112.500	40.380	10004			
2322-	GRID	5045	5001	16.200	135.000	40.380	10004			
2323-	GRID	5046	5001	16.200	157.500	40.380	10004			
2324-	GRID	5047	5001	16.200	180.000	40.380	10004			
2325-	GRID	5052	5001	18.000	.000	48.380	10005			
2326-	GRID	5053	5001	18.000	22.500	48.380	10005			
2327-	GRID	5054	5001	18.000	45.000	48.380	10005			
2328-	GRID	5055	5001	18.000	67.500	48.380	10005			
2329-	GRID	5056	5001	18.000	90.000	48.380	10005			
2330-	GRID	5057	5001	18.000	112.500	48.380	10005			
2331-	GRID	5058	5001	18.000	135.000	48.380	10005			
2332-	GRID	5059	5001	18.000	157.500	48.380	10005			
2333-	GRID	5060	5001	18.000	180.000	48.380	10005			
2334-	GRID	5065	5001	19.875	.000	56.280	10006			
2335-	GRID	5066	5001	19.875	22.500	56.280	10006			
2336-	GRID	5067	5001	19.875	45.000	56.280	10006			
2337-	GRID	5068	5001	19.875	67.500	56.280	10006			
2338-	GRID	5069	5001	19.875	90.000	56.280	10006			
2339-	GRID	5070	5001	19.875	112.500	56.280	10006			
2340-	GRID	5071	5001	19.875	135.000	56.280	10006			
2341-	GRID	5072	5001	19.875	157.500	56.280	10006			
2342-	GRID	5073	5001	19.875	180.000	56.280	10006			
2343-	GRID	5078	5001	19.875	.000	65.780	5100			
2344-	GRID	5079	5001	19.875	22.500	65.780	5100			
2345-	GRID	5080	5001	19.875	45.000	65.780	5100			
2346-	GRID	5081	5001	19.875	67.500	65.780	5100			
2347-	GRID	5082	5001	19.875	90.000	65.780	5100			
2348-	GRID	5083	5001	19.875	112.500	65.780	5100			
2349-	GRID	5084	5001	19.875	135.000	65.780	5100			
2350-	GRID	5085	5001	19.875	157.500	65.780	5100			

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SORTED BULK DATA ECHD

CARD	1	2	3	4	5	6	7	8	9	10
GRID	5001	5001	19.875	180.000	65.780	5100				
GRID	5001	5001	19.875	.000	71.780	5100				
GRID	5001	5001	19.875	22.500	71.780	5100				
GRID	5001	5001	19.875	45.000	71.780	5100				
GRID	5001	5001	19.875	67.500	71.780	5100				
GRID	5001	5001	19.875	90.000	71.780	5100				
GRID	5001	5001	19.875	112.500	71.780	5100				
GRID	5001	5001	19.875	135.000	71.780	5100				
GRID	5001	5001	19.875	157.500	71.780	5100				
GRID	5001	5001	19.875	180.000	71.780	5100				
GRID	5001	5001	19.875	.000	77.780	5100				
GRID	5001	5001	19.875	22.500	77.780	5100				
GRID	5001	5001	19.875	45.000	77.780	5100				
GRID	5001	5001	19.875	67.500	77.780	5100				
GRID	5001	5001	19.875	90.000	77.780	5100				
GRID	5001	5001	19.875	112.500	77.780	5100				
GRID	5001	5001	19.875	135.000	77.780	5100				
GRID	5001	5001	19.875	157.500	77.780	5100				
GRID	5001	5001	19.875	180.000	77.780	5100				
GRID	5001	5001	19.8	.000	83.780	10010				
GRID	5001	5001	19.8	22.500	83.780	10010				
GRID	5001	5001	19.8	45.000	83.780	10010				
GRID	5001	5001	19.9	67.500	83.780	10010				
GRID	5001	5001	19.3	90.000	83.760	10010				
GRID	5001	5001	19.8	112.500	83.780	10010				
GRID	5001	5001	19.8	135.000	83.780	10010				
GRID	5001	5001	19.8	157.500	83.780	10010				
GRID	5001	5001	19.8	180.000	83.780	10010				
GRID	656	656	83.78	-19.4173	3071	10010				
GRID	5001	5001	18.54	.0	87.93	10011				
GRID	5001	5001	18.54	22.5	87.93	10011				
GRID	5001	5001	18.54	45.0	87.93	10011				
GRID	5001	5001	18.54	67.5	87.93	10011				
GRID	5001	5001	18.54	90.0	87.93	10011				
GRID	5001	5001	18.54	112.5	87.93	10011				
GRID	5001	5001	18.54	135.0	87.93	10011				
GRID	5001	5001	18.54	157.5	87.93	10011				
GRID	5001	5001	18.54	180.0	87.93	10011				
GRID	5001	5001	16.28	.0	91.28	10012				
GRID	5001	5001	16.28	22.5	91.28	10012				
GRID	5001	5001	16.28	45.0	91.28	10012				
GRID	5001	5001	16.28	67.5	91.28	10012				
GRID	5001	5001	16.28	90.0	91.28	10012				
GRID	5001	5001	16.28	112.5	91.28	10012				
GRID	5001	5001	16.28	135.0	91.28	10012				
GRID	5001	5001	16.28	157.5	91.28	10012				
GRID	5001	5001	16.28	180.0	91.28	10012				
GRID	5001	5001	12.29	.0	94.53	10013				
GRID	5001	5001	12.29	22.5	94.53	10013				
GRID	5001	5001	12.29	45.0	94.53	10013				

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

Volume II

CARD	1	2	3	4	5	6	7	8	9	10
GR10	5159	12.29	67.5	94.53	10013					
GR10	5160	12.29	90.0	94.53	10013					
GR10	5161	12.29	112.5	94.53	10013					
GR10	5162	12.29	135.0	94.53	10013					
GR10	5163	12.29	157.5	94.53	10013					
GR10	5164	12.29	180.0	94.53	10013					
GR10	5165	9.274	.0	96.083	10014					
GR10	5170	9.274	22.5	96.083	10014					
GR10	5171	9.274	45.0	96.083	10014					
GR10	5172	9.274	67.5	96.083	10014					
GR10	5173	9.274	90.0	96.083	10014					
GR10	5174	9.274	112.5	96.083	10014					
GR10	5175	9.274	135.0	96.083	10014					
GR10	5176	9.274	157.5	96.083	10014					
GR10	5177	9.274	180.0	96.083	10014					
GR10	5182	5.266	.0	97.386	10015					
GR10	5183	5.266	22.5	97.386	10015					
GR10	5184	5.266	45.0	97.386	10015					
GR10	5185	5.266	67.5	97.386	10015					
GR10	5186	5.266	90.0	97.386	10015					
GR10	5187	5.266	112.5	97.386	10015					
GR10	5188	5.266	135.0	97.386	10015					
GR10	5189	5.266	157.5	97.386	10015					
GR10	5190	5.266	180.0	97.386	10015					
GR10	5195	1.785	.0	97.912	10016					
GR10	5196	1.785	22.5	97.912	10016					
GR10	5197	1.785	45.0	97.912	10016					
GR10	5198	1.785	67.5	97.912	10016					
GR10	5199	1.785	90.0	97.912	10016					
GR10	5200	1.785	112.5	97.912	10016					
GR10	5201	1.785	135.0	97.912	10016					
GR10	5202	1.785	157.5	97.912	10016					
GR10	5203	1.785	180.0	97.912	10016					
GR10	5204	.0	.0	97.98	3001					
GR10	8001	101.86	.0	.0	696					
GR10	8010	6.40	.0	102.55	69					
GR10	8011	6.40	22.5	102.55	69					
GR10	8012	6.40	45.0	102.55	69					
GR10	8013	6.40	67.5	102.55	69					
GR10	8014	6.40	90.0	102.55	69					
GR10	8015	6.40	112.5	102.55	69					
GR10	8016	6.40	135.0	102.55	69					
GR10	8017	6.40	157.5	102.55	69					
GR10	8018	6.40	180.0	102.55	69					
GR10	8020	12.61	.0	105.32	69					
GR10	8021	12.61	22.5	105.32	69					
GR10	8022	12.61	45.0	105.32	69					
GR10	8023	12.61	67.5	105.32	69					
GR10	8024	12.61	90.0	105.32	69					
GR10	8025	12.61	112.5	105.32	69					

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2351-	GRID	8036	69	12.61	135.0	105.32	69			
2352-	GRID	8037	69	12.61	157.5	105.32	69			
2353-	GRID	8038	69	12.61	180.0	105.32	69			
2354-	GRID	8050	69	17.91	.0	110.38	69			
2355-	GRID	8051	69	17.91	22.5	110.38	69			
2356-	GRID	8052	69	17.91	45.0	110.38	69			
2357-	GRID	8053	69	17.91	67.5	110.38	69			
2358-	GRID	8054	69	17.91	90.0	110.38	69			
2359-	GRID	8055	69	17.91	112.5	110.38	69			
2360-	GRID	8056	69	17.91	135.0	110.38	69			
2361-	GRID	8057	69	17.91	157.5	110.38	69			
2362-	GRID	8058	69	17.91	180.0	110.38	69			
2363-	GRID	8070	69	19.80	.0	113.70	69			
2364-	GRID	8071	69	19.80	22.5	113.70	69			
2365-	GRID	8072	69	19.80	45.0	113.70	69			
2366-	GRID	8073	69	19.80	67.5	113.70	69			
2367-	GRID	8074	696	113.70	-19.41073.9071	9071	69			
2368-	GRID	8075	69	19.80	90.0	113.70	69			
2369-	GRID	8076	69	19.80	112.5	113.70	69			
2370-	GRID	8077	69	19.40	135.0	113.70	69			
2371-	GRID	8078	69	19.80	157.5	113.70	69			
2372-	GRID	8079	69	19.80	180.0	113.70	69			
2373-	GRID	8110	69	19.80	.0	91.98	69			
2374-	GRID	8111	69	19.80	22.5	91.98	69			
2375-	GRID	8112	69	19.80	45.0	91.98	69			
2376-	GRID	8113	69	19.80	67.5	91.98	69			
2377-	GRID	8114	696	91.98	-19.41073.9071	9071	69			
2378-	GRID	8115	69	19.80	90.0	91.98	69			
2379-	GRID	8116	69	19.80	112.5	91.98	69			
2380-	GRID	8117	69	19.80	135.0	91.98	69			
2381-	GRID	8118	69	19.80	157.5	91.98	69			
2382-	GRID	8119	69	19.80	180.0	91.98	69			
2383-	GRID	8130	69	19.80	.0	99.98	69			
2384-	GRID	8131	69	19.80	22.5	99.98	69			
2385-	GRID	8132	69	19.80	45.0	99.98	69			
2386-	GRID	8133	69	19.80	67.5	99.98	69			
2387-	GRID	8134	696	99.98	-19.41073.9071	9071	100			
2388-	GRID	8135	69	19.80	90.0	99.98	69			
2389-	GRID	8136	69	19.80	112.5	99.98	69			
2390-	GRID	8137	69	19.80	135.0	99.98	69			
2391-	GRID	8138	69	19.80	157.5	99.98	69			
2392-	GRID	8139	65	19.80	180.0	99.98	69			
2393-	GRID	8140	696	99.98	.0	3.9071	696	456		
2394-	GRID	8150	69	19.80	.0	106.86	69			
2395-	GRID	8151	69	19.80	22.5	106.86	69			
2396-	GRID	8152	69	19.80	45.0	106.86	69			
2397-	GRID	8153	69	19.80	67.5	106.86	69			
2398-	GRID	8154	696	106.86	-19.41073.9071	9071	69			
2399-	GRID	8155	69	19.80	90.0	106.86	69			
3000-	GRID	8156	65	19.80	112.5	106.86	69			

SORTED BULK DATA ECHO

CARD	GRID	1	2	3	4	5	6	7	8	9	10
3001-	GRID	81E7	69	19.80	19.80	135.0	106.86	69			
3002-	GRID	81E8	69	19.80	19.80	157.5	106.86	69			
3003-	GRID	81E9	69	19.80	19.80	180.0	106.86	69			
3004-	GRID	81F0	69	19.80	19.80	.0	128.35	5100			
3005-	GRID	81F1	69	19.80	19.80	22.5	128.35	5100			
3006-	GRID	81F2	69	19.80	19.80	45.0	128.35	5100			
3007-	GRID	81F3	69	19.80	19.80	67.5	128.35	5100			
3008-	GRID	81F4	69	19.80	19.80	90.0	128.35	5100			
3009-	GRID	81F5	69	19.80	19.80	112.5	128.35	5100			
3010-	GRID	81F6	69	19.80	19.80	135.0	128.35	5100			
3011-	GRID	81F7	69	19.80	19.80	157.5	128.35	5100			
3012-	GRID	81F8	69	19.80	19.80	180.0	128.35	5100			
3013-	GRID	81F9	69	19.80	19.80	.0	139.06	5100			
3014-	GRID	81G0	69	19.80	19.80	22.5	139.06	5100			
3015-	GRID	81G1	69	19.80	19.80	45.0	139.06	5100			
3016-	GRID	81G2	69	19.80	19.80	67.5	139.06	5100			
3017-	GRID	81G3	69	19.80	19.80	90.0	139.06	5100			
3018-	GRID	81G4	69	19.80	19.80	112.5	139.06	5100			
3019-	GRID	81G5	69	19.80	19.80	135.0	139.06	5100			
3020-	GRID	81G6	69	19.80	19.80	157.5	139.06	5100			
3021-	GRID	81G7	69	19.80	19.80	180.0	139.06	5100			
3022-	GRID	8205	656	148.756	148.756	.0	21.9561	696	1456		
3023-	GRID	8210	69	19.80	19.80	.0	148.756	5100			
3024-	GRID	8211	69	19.80	19.80	22.5	148.756	5100			
3025-	GRID	8212	69	19.80	19.80	45.0	148.756	5100			
3026-	GRID	8213	69	19.80	19.80	67.5	148.756	5100			
3027-	GRID	8214	69	19.80	19.80	90.0	148.756	5100			
3028-	GRID	8215	69	19.80	19.80	112.5	148.756	5100			
3029-	GRID	8216	69	19.80	19.80	135.0	148.756	5100			
3030-	GRID	8217	69	19.80	19.80	157.5	148.756	5100			
3031-	GRID	8218	69	19.80	19.80	180.0	148.756	5100			
3032-	GRID	8230	69	19.80	19.80	.0	168.75	5100			
3033-	GRID	8231	69	19.80	19.80	22.5	168.75	5100			
3034-	GRID	8232	69	19.80	19.80	45.0	168.75	5100			
3035-	GRID	8233	69	19.80	19.80	67.5	168.75	5100			
3036-	GRID	8234	69	19.80	19.80	90.0	168.75	5100			
3037-	GRID	8235	69	19.80	19.80	112.5	168.75	5100			
3038-	GRID	8236	69	19.80	19.80	135.0	168.75	5100			
3039-	GRID	8237	69	19.80	19.80	157.5	168.75	5100			
3040-	GRID	8238	69	19.80	19.80	180.0	168.75	5100			
3041-	GRID	8250	69	19.80	19.80	.0	188.75	5100			
3042-	GRID	8251	69	19.80	19.80	22.5	188.75	5100			
3043-	GRID	8252	69	19.80	19.80	45.0	188.75	5100			
3044-	GRID	8253	69	19.80	19.80	67.5	188.75	5100			
3045-	GRID	8254	69	19.80	19.80	90.0	188.75	5100			
3046-	GRID	8255	69	19.80	19.80	112.5	188.75	5100			
3047-	GRID	8256	69	19.80	19.80	135.0	188.75	5100			
3048-	GRID	8257	69	19.80	19.80	157.5	188.75	5100			
3049-	GRID	8258	69	19.80	19.80	180.0	188.75	5100			
3050-	GRID	8270	69	19.80	19.80	.0	209.13	5100			

ORIGINAL PAGE IS
OF POOR QUALITY

SORTED BULK DATA ECHO

CA90	1	2	3	4	5	6	7	8	9	10
COUNT	69	8271	19.80	22.5	209.13	5100				
GRID	69	8272	19.80	45.0	209.13	5100				
GRID	69	8273	19.80	67.5	209.13	5100				
GRID	69	8274	19.80	90.0	209.13	5100				
GRID	69	8275	19.80	112.5	209.13	5100				
GRID	69	8276	19.80	135.0	209.13	5100				
GRID	69	8277	19.80	157.5	209.13	5100				
GRID	69	8278	19.80	180.0	209.13	5100				
GRID	69	8290	19.80	.0	229.156	5100				
GRID	69	8291	19.80	22.5	229.156	5100				
GRID	69	8292	19.80	45.0	229.156	5100				
GRID	69	8293	19.80	67.5	229.156	5100				
GRID	69	8294	19.80	90.0	229.156	5100				
GRID	69	8295	19.80	112.5	229.156	5100				
GRID	69	8296	19.80	135.0	229.156	5100				
GRID	69	8297	19.80	157.5	229.156	5100				
GRID	69	8298	19.80	180.0	229.156	5100				
GRID	69	8299	229.156	.0	.0	676				456
GRID	69	8310	19.80	.0	237.30	5100				
GRID	69	8311	19.80	22.5	237.30	5100				
GRID	69	8312	19.80	45.0	237.30	5100				
GRID	69	8313	19.80	67.5	237.30	5100				
GRID	69	8314	19.80	90.0	237.30	5100				
GRID	69	8315	19.80	112.5	237.30	5100				
GRID	69	8316	19.80	135.0	237.30	5100				
GRID	69	8317	19.80	157.5	237.30	5100				
GRID	69	8318	19.80	180.0	237.30	5100				
GRID	69	8328	245.7536	.0	24.9514	676				456
GRID	69	8329	245.7536	-13.75	24.9514	3002				12456
GRID	69	8330	19.80	.0	245.7536	5100				
GRID	69	8331	19.80	11.25	245.7536	5100				
GRID	69	8332	19.80	22.5	245.7536	5100				
GRID	69	8333	19.80	45.0	245.7536	5100				
GRID	69	8334	19.80	56.25	245.7536	5100				
GRID	69	8335	19.80	67.5	245.7536	5100				
GRID	69	8336	19.80	90.0	245.7536	5100				
GRID	69	8337	19.80	112.5	245.7536	5100				
GRID	69	8338	19.80	135.0	245.7536	5100				
GRID	69	8339	19.80	157.5	245.7536	5100				
GRID	69	8340	19.80	180.0	245.7536	5100				
GRID	69	8341	245.7536	.0	.0	696				456
GRID	69	8352	19.80	.0	270.988	69				
GRID	69	8353	19.80	22.5	270.988	69				
GRID	69	8354	270.988	-14.9702	12.9588	101				
GRID	69	8355	19.80	67.5	270.988	69				
GRID	69	8356	19.80	90.0	270.988	69				
GRID	69	8357	270.988	-18.8181	-6.1577	101				
GRID	69	8358	19.80	135.0	270.988	69				
GRID	69	8359	19.80	157.5	270.988	69				
GRID	69	8360	19.80	180.0	270.988	69				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
GRID	8355	696	270.988	.0	12.9588	696	456			
GRID	8360	696	270.988	.0	-6.1577	696	456			
GRID	8370	69	19.80	.0	258.125	20014				
GRID	8371	69	19.80	22.5	258.125	20014				
GRID	8372	69	19.80	45.0	258.125	20014				
GRID	8373	69	19.80	67.5	258.125	20014				
GRID	8374	69	19.80	90.0	258.125	20014				
GRID	8375	69	19.80	112.5	258.125	20014				
GRID	8376	69	19.80	135.0	258.125	20014				
GRID	8377	69	19.80	157.5	258.125	20014				
GRID	8378	69	19.80	180.0	258.125	20014				
GRID	8390	69	17.91	.0	260.92	20015				
GRID	8391	69	17.91	22.5	260.92	20015				
GRID	8392	69	17.91	45.0	260.92	20015				
GRID	8393	69	17.91	67.5	260.92	20015				
GRID	8394	69	17.91	90.0	260.92	20015				
GRID	8395	69	17.91	112.5	260.92	20015				
GRID	8396	69	17.91	135.0	260.92	20015				
GRID	8397	69	17.91	157.5	260.92	20015				
GRID	8398	69	17.91	180.0	260.92	20015				
GRID	8410	69	12.61	.0	265.98	20016				
GRID	8411	69	12.61	22.5	265.98	20016				
GRID	8412	69	12.61	45.0	265.98	20016				
GRID	8413	69	12.61	67.5	265.98	20016				
GRID	8414	69	12.61	90.0	265.98	20016				
GRID	8415	69	12.61	112.5	265.98	20016				
GRID	8416	69	12.61	135.0	265.98	20016				
GRID	8417	69	12.61	157.5	265.98	20016				
GRID	8418	69	12.61	180.0	265.98	20016				
GRID	8430	69	6.40	.0	269.75	20017				
GRID	8431	69	6.40	22.5	269.75	20017				
GRID	8432	69	6.40	45.0	269.75	20017				
GRID	8433	69	6.40	67.5	269.75	20017				
GRID	8434	69	6.40	90.0	269.75	20017				
GRID	8435	69	6.40	112.5	269.75	20017				
GRID	8436	69	6.40	135.0	269.75	20017				
GRID	8437	69	6.40	157.5	269.75	20017				
GRID	8438	69	6.40	180.0	269.75	20017				
GRID	8440	696	269.44	.0	.0	696				
GRID	100200	5100	9.		23.	10002				
GRID	100201	5100	9.		23.	10002				
GRID	100202	5100	9.		23.	10002				
GRID	100203	5100	9.		23.	10002				
GRID	100204	5100	14.2		31.93	10003				
GRID	100205	5100	14.2		31.93	10003				
GRID	100206	5100	14.2		31.93	10003				
GRID	100207	5100	14.2		31.93	10003				
GRID	100208	5100	14.2		31.93	10003				
GRID	100209	5100	16.2		40.38	10004				
GRID	100210	5100	16.2		40.38	10004				
GRID	100401	5100	16.2		40.38	10004				
GRID	100402	5100	16.2		40.38	10004				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3151-	GRIC	100403	5100	16.2	40.38	10004				
3152-	GRID	100500	5100	18.0	48.38	10005				
3153-	GRIC	100501	5100	18.0	48.38	10005				
3154-	GRIC	100502	5100	18.0	49.38	10005				
3155-	GRIC	100503	5100	18.0	48.38	10005				
3156-	GRID	100500	5100	19.875	56.38	10006				
3157-	GRID	100501	5100	19.875	56.38	10006				
3158-	GRID	100502	5100	19.875	56.38	10006				
3159-	GRID	100503	5100	19.875	56.38	10006				
3160-	GRIC	100700	5100	19.875	65.78	5100				
3161-	GRIC	100701	5100	19.875	65.78	5100				
3162-	GRIC	100702	5100	19.875	65.78	5100				
3163-	GRIC	100703	5100	19.875	65.78	5100				
3164-	GRID	100500	5100	19.875	71.78	5100				
3165-	GRID	100501	5100	19.875	71.78	5100				
3166-	GRID	100502	5100	19.875	71.78	5100				
3167-	GRID	100503	5100	19.875	71.78	5100				
3168-	GRIC	100500	5100	19.875	77.78	5100				
3169-	GRIC	100501	5100	19.875	77.78	5100				
3170-	GRIC	100502	5100	19.875	77.78	5100				
3171-	GRIC	100503	5100	19.875	77.78	5100				
3172-	GRID	101000	5100	19.875	83.78	10010				
3173-	GRID	101001	5100	19.875	83.78	10010				
3174-	GRID	101002	5100	19.875	83.78	10010				
3175-	GRIC	101003	5100	19.875	83.78	10010				
3176-	GRID	101100	5100	18.54	87.93	10011				
3177-	GRID	101101	5100	18.54	87.93	10011				
3178-	GRID	101102	5100	18.54	87.93	10011				
3179-	GRID	101303	5100	18.54	87.93	10011				
3180-	GRID	101200	5100	16.28	91.28	10012				
3181-	GRID	101201	5100	16.28	91.28	10012				
3182-	GRIC	101202	5100	16.28	91.28	10012				
3183-	GRIC	101203	5100	16.28	91.28	10012				
3184-	GRIC	101300	5100	12.29	94.53	10013				
3185-	GRIC	101301	5100	12.29	94.53	10013				
3186-	GRIC	101302	5100	12.29	94.53	10013				
3187-	GRIC	101303	5100	12.29	94.53	10013				
3188-	GRIC	101400	5100	9.274	96.083	10014				
3189-	GRIC	101401	5100	9.274	96.083	10014				
3190-	GRIC	101402	5100	9.274	96.083	10014				
3191-	GRIC	101403	5100	9.274	96.083	10014				
3192-	GRID	101500	5100	5.266	97.386	10015				
3193-	GRID	101501	5100	5.266	97.386	10015				
3194-	GRID	101502	5100	5.266	97.386	10015				
3195-	GRID	101503	5100	5.266	97.386	10015				
3196-	GRIC	101600	5100	1.7875	97.912	10016				
3197-	GRIC	101601	5100	1.7875	97.912	10016				
3198-	GRID	101602	5100	1.7875	97.912	10016				
3199-	GRIC	101603	5100	1.7875	97.912	10016				
3200-	GRIC	110100	69	19.8	91.98	69				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3201-	GRID	110101	69	19.8	91.98	69				
3202-	GRID	110102	69	19.8	91.98	69				
3203-	GRID	110103	69	19.8	91.98	69				
3204-	GRID	110200	69	19.8	99.98	69				
3205-	GRID	110201	69	19.8	99.98	69				
3206-	GRID	110202	69	19.8	99.98	69				
3207-	GRID	110203	69	19.8	99.98	69				
3208-	GRID	110200	69	19.8	106.86	69				
3209-	GRID	110301	69	19.8	106.86	69				
3210-	GRID	110302	69	19.8	106.86	69				
3211-	GRID	110303	69	19.8	106.86	69				
3212-	GRID	110400	69	19.8	113.70	69				
3213-	GRID	110401	69	19.8	113.70	69				
3214-	GRID	110402	69	19.8	113.70	69				
3215-	GRID	110403	69	19.8	113.70	69				
3216-	GRID	110500	69	19.8	128.75	69				
3217-	GRID	110501	69	19.8	128.75	69				
3218-	GRID	110502	69	19.8	128.75	69				
3219-	GRID	110503	69	19.8	128.75	69				
3220-	GRID	110600	69	19.8	139.06	69				
3221-	GRID	110601	69	19.8	139.06	69				
3222-	GRID	110602	69	19.8	139.06	69				
3223-	GRID	110603	69	19.8	139.06	69				
3224-	GRID	110700	69	19.8	148.756	67				
3225-	GRID	110701	69	19.8	148.756	69				
3226-	GRID	110702	69	19.8	148.756	69				
3227-	GRID	110703	69	19.8	148.756	69				
3228-	GRID	110800	69	19.8	168.75	69				
3229-	GRID	110801	69	19.8	168.75	69				
3230-	GRID	110802	69	19.8	168.75	69				
3231-	GRID	110803	69	19.8	168.75	69				
3232-	GRID	110900	69	19.8	188.75	69				
3233-	GRID	110901	69	19.8	188.75	69				
3234-	GRID	110902	69	19.8	188.75	69				
3235-	GRID	110903	69	19.8	188.75	69				
3236-	GRID	111000	69	19.8	209.13	69				
3237-	GRID	111001	69	19.8	209.13	69				
3238-	GRID	111002	69	19.8	209.13	69				
3239-	GRID	111003	69	19.8	209.13	69				
3240-	GRID	111100	69	19.8	229.156	69				
3241-	GRID	111101	69	19.8	229.156	69				
3242-	GRID	111102	69	19.8	229.156	69				
3243-	GRID	111103	69	19.8	229.156	69				
3244-	GRID	111200	69	19.8	237.30	69				
3245-	GRID	111201	69	19.8	237.30	69				
3246-	GRID	111202	69	19.8	237.30	69				
3247-	GRID	111203	69	19.8	237.30	69				
3248-	GRID	111300	69	19.8	245.753669					
3249-	GRID	111301	69	19.8	245.753669					
3250-	GRID	111302	69	19.8	245.753669					

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OF POOR QUALITY

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
3251-	GRID	111203 69	19.8		245.753669					
3252-	GRID	111400 69	19.8		258.125 20014					
3253-	GRID	111401 69	19.8		258.125 20014					
3254-	GRID	111402 69	19.8		258.125 20014					
3255-	GRID	111403 69	19.8		258.125 20014					
3256-	GRID	111500 69	17.91		260.92 20015					
3257-	GRID	111501 69	17.91		260.92 20015					
3258-	GRID	111502 69	17.91		260.92 20015					
3259-	GRID	111503 69	17.91		260.92 20015					
3260-	GRID	111600 69	12.61		265.98 20016					
3261-	GRID	111601 69	12.61		265.98 20016					
3262-	GRID	111602 69	12.61		265.98 20016					
3263-	GRID	111603 69	12.61		265.98 20016					
3264-	GRID	111700 69	6.40		268.75 20017					
3265-	GRID	111701 69	6.40		268.75 20017					
3266-	GRID	111702 69	6.40		268.75 20017					
3267-	GRID	111703 69	6.40		268.75 20017					
3268-	MAT1	5517 10.566	.3		2.6-4					
3269-	MAT1	8C10 1.0567	.30		.00031					
3270-	MAT1	84CC 1.0567	.30		.000052					
3271-	MAT1	85CC 1.0567	.30							
3272-	MAT1	860C 1.0567	.30		.00031					
3273-	MPC	1 5012 1	-1.	100201 1	100200 1	1.00000	1.00000			EM501311
3274-	EM5C1311	100201	1	1.00000	100202	1.00000	1.00000			EM501321
3275-	EM501321	100203	1	1.00000						
3276-	MPC	1 5012 2	-1.	100201 2	100200 2	1.00000	1.00000			EM501312
3277-	EM501312	100201	2	1.00000	100202	2.00000	2.00000			EM501322
3278-	EM501322	100203	2	1.00000						
3279-	MPC	1 5012 3	-1.	100201 3	100200 3	.0	.0			EM501313
3280-	EM5C1313	100201	3	0.0	100202	3.0.0	3.0.0			EM501323
3281-	EM501323	100203	3	0.0						
3282-	MPC	1 5012 4	-1.	100201 4	100200 4	.0	.0			EM501314
3283-	EM5C1314	100201	4	0.0	100202	4.0.0	4.0.0			EM501324
3284-	EM501324	100203	4	0.0						
3285-	MPC	1 5012 5	-1.	100201 5	100200 5	.0	.0			EM501315
3286-	EM5C1315	100201	5	0.0	100202	5.0.0	5.0.0			EM501325
3287-	EM501325	100203	5	0.0						
3288-	MPC	1 5012 6	-1.	100201 6	100200 6	1.00000	1.00000			EM501316
3289-	EM5C1316	100201	6	1.00000	100202	6.00000	6.00000			EM501326
3290-	EM501326	100203	6	1.00000						
3291-	MPC	1 5014 1	-1.	100201 1	100200 1	1.00000	1.00000			EM501411
3292-	EM5C1421	100201	1	0.92388	100202	1.0.70711	1.0.70711			EM501421
3293-	EM501421	100203	1	0.38268						
3294-	MPC	1 5014 2	-1.	100201 2	100200 2	1.00000	1.00000			EM501412
3295-	EM5C1412	100201	2	0.92388	100202	2.0.70711	2.0.70711			EM501422
3296-	EM501422	100203	2	0.38268						
3297-	MPC	1 5014 3	-1.	100201 3	100200 3	.0	.0			EM501413
3298-	EM5C1413	100201	3	0.38268	100202	3.0.70711	3.0.70711			EM501423
3299-	EM501423	100203	3	0.92398						
3300-	MPC	1 5014 4	-1.	100201 4	100200 4	.0	.0			EM501414

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Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3301-	CM501414	100201	100201	4 0.38268	100202	4 0.70711				CM501424
3302-	CM501424	100203	100203	4 0.92388						CM501415
3303-	MPC	5014	5	-1.	100200	5	.0			CM501425
3304-	CM501415	100201	100201	5 0.38268	100202	5 0.70711				
3305-	CM501425	100203	100203	5 0.92388						
3306-	MPC	5014	6	-1.	100200	6	1.00000			CM501416
3307-	CM501416	100201	100201	6 0.38268	100202	6 0.70711				CM501426
3308-	CM501426	100203	100203	6 0.92388						
3309-	MPC	5015	1	-1.	100200	1	1.00000			CM501511
3310-	CM501511	100201	100201	1 0.70711	100202	1 0.00000				CM501521
3311-	CM501521	100203	100203	1-0.70711						
3312-	MPC	5015	2	-1.	100200	2	1.00000			CM501512
3313-	CM501512	100201	100201	2 0.70711	100202	2 0.00000				CM501522
3314-	CM501522	100203	100203	2-0.70711						
3315-	MPC	5015	3	-1.	100200	3	.0			CM501513
3316-	CM501513	100201	100201	3 0.70711	100202	3 1.00000				CM501523
3317-	CM501523	100203	100203	3 0.70711						
3318-	MPC	5015	4	-1.	100200	4	.0			CM501514
3319-	CM501514	100201	100201	4 0.70711	100202	4 1.00000				CM501524
3320-	CM501524	100203	100203	4 0.70711						
3321-	MPC	5015	5	-1.	100200	5	.0			CM501515
3322-	CM501515	100201	100201	5 0.70711	100202	5 1.00000				CM501525
3323-	CM501525	100203	100203	5 0.70711						
3324-	MPC	5015	6	-1.	100200	6	1.00000			CM501516
3325-	CM501516	100201	100201	6 0.70711	100202	6 0.00000				CM501526
3326-	CM501526	100203	100203	6-0.70711						
3327-	MPC	5016	1	-1.	100200	1	1.00000			CM501611
3328-	CM501611	100201	100201	1 0.38268	100202	1-0.70711				CM501621
3329-	CM501621	100203	100203	1-0.92388						
3330-	MPC	5016	2	-1.	100200	2	1.00000			CM501612
3331-	CM501612	100201	100201	2 0.38268	100202	2-0.70711				CM501622
3332-	CM501622	100203	100203	2-0.92388						
3333-	MPC	5016	3	-1.	100200	3	.0			CM501613
3334-	CM501613	100201	100201	3 0.92388	100202	3 0.70711				CM501623
3335-	CM501623	100203	100203	3-0.38268						
3336-	MPC	5016	4	-1.	100200	4	.0			CM501614
3337-	CM501614	100201	100201	4 0.92388	100202	4 0.70711				CM501624
3338-	CM501624	100203	100203	4-0.38268						
3339-	MPC	5016	5	-1.	100200	5	.0			CM501615
3340-	CM501615	100201	100201	5 0.92388	100202	5 0.70711				CM501625
3341-	CM501625	100203	100203	5-0.38268						
3342-	MPC	5016	6	-1.	100200	6	1.00000			CM501616
3343-	CM501616	100201	100201	6 0.38268	100202	6-0.70711				CM501626
3344-	CM501626	100203	100203	6-0.92388						
3345-	MPC	5017	1	-1.	100200	1	1.00000			CM501711
3346-	CM501711	100201	100201	1 0.00000	100202	1-1.00000				CM501721
3347-	CM501721	100203	100203	1-0.00000						
3348-	MPC	5017	2	-1.	100200	2	1.00000			CM501712
3349-	CM501712	100201	100201	2 0.00000	100202	2-1.00000				CM501722
3350-	CM501722	100203	100203	2-0.00000						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3301-	1	5017	3	-1.	100200	3	.0			EM501713
3302-	1	100201	3	3	1.00000	100202	3	0.00000		EM501723
3303-	1	100203	4	3	-1.00000					
3304-	1	5017	4	-1.	100200	4	.0			EM501714
3305-	1	100201	4	4	1.00000	100202	4	0.00000		EM501724
3306-	1	100203	5	4	-1.00000					
3307-	1	5017	5	-1.	100200	5	.0			EM501715
3308-	1	100201	5	5	1.00000	100202	5	0.00000		EM501725
3309-	1	100203	6	5	-1.00000					
3310-	1	5017	6	-1.	100200	6	1.00000			EM501716
3311-	1	100201	6	6	0.00000	100202	6	-1.00000		EM501726
3312-	1	100203	1	6	-0.00000					
3313-	1	5018	1	-1.	100200	1	1.00000			EM501811
3314-	1	100201	1	1	-0.38268	100202	1	-0.70711		EM501821
3315-	1	100203	2	1	0.92388					
3316-	1	5018	2	-1.	100200	2	1.00000			EM501812
3317-	1	100201	2	2	-0.38268	100202	2	-0.70711		EM501822
3318-	1	100203	3	2	0.92388					
3319-	1	5018	3	-1.	100200	3	.0			EM501813
3320-	1	100201	3	3	0.92388	100202	3	-0.70711		EM501823
3321-	1	100203	4	3	-0.38268					
3322-	1	5018	4	-1.	100200	4	.0			EM501814
3323-	1	100201	4	4	0.92388	100202	4	-0.70711		EM501824
3324-	1	100203	5	4	-0.38268					
3325-	1	5018	5	-1.	100200	5	.0			EM501815
3326-	1	100201	5	5	0.92388	100202	5	-0.70711		EM501825
3327-	1	100203	6	5	-0.38268					
3328-	1	5018	6	-1.	100200	6	1.00000			EM501816
3329-	1	100201	6	6	0.92388	100202	6	-0.70711		EM501826
3330-	1	100203	1	6	0.92388					
3331-	1	5019	1	-1.	100200	1	1.00000			EM501911
3332-	1	100201	1	1	-0.70711	100202	1	-0.06000		EM501921
3333-	1	100203	2	1	0.70711					
3334-	1	5019	2	-1.	100200	2	1.00000			EM501912
3335-	1	100201	2	2	-0.70711	100202	2	-0.00000		EM501922
3336-	1	100203	3	2	0.70711					
3337-	1	5019	3	-1.	100200	3	.0			EM501913
3338-	1	100201	3	3	0.70711	100202	3	-1.00000		EM501923
3339-	1	100203	4	3	0.70710					
3340-	1	5019	4	-1.	100200	4	.0			EM501914
3341-	1	100201	4	4	0.70711	100202	4	-1.00000		EM501924
3342-	1	100203	5	4	0.70710					
3343-	1	5019	5	-1.	100200	5	.0			EM501915
3344-	1	100201	5	5	0.70711	100202	5	-1.00000		EM501925
3345-	1	100203	6	5	0.70710					
3346-	1	5019	6	-1.	100200	6	1.00000			EM501916
3347-	1	100201	6	6	-0.70711	100202	6	-0.00000		EM501926
3348-	1	100203	1	6	0.70711					
3349-	1	5020	1	-1.	100200	1	1.00000			EM502011
3350-	1	100201	1	1	-0.92388	100202	1	0.70711		EM502021

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CARD	1	2	3	4	5	6	7	8	9	10
3401- CMS02021	1	100201	100203	1-0.38268						
3402- MPC	1	502C	2	-1.	100200	2	1.00000			CMS02012
3403- CMS02012		100201	100202	2-0.92388	100202		2	0.70711		CMS02022
3404- CMS02022		100203		2-0.38268						
3405- MPC	1	502C	3	-1.	100200	3	.0			CMS02013
3406- CMS02013		100201	100202	3 0.38268	100202		3-0.70711			CMS02023
3407- CMS02023		100203		3 0.92388						
3408- MPC	1	502C	4	-1.	100200	4	.0			CMS02014
3409- CMS02014		100201	100202	4 0.38268	100202		4-0.70711			CMS02024
3410- CMS02024		100203		4 0.92388						
3411- MPC	1	502C	5	-1.	100200	5	.0			CMS02015
3412- CMS02015		100201	100202	5 0.38268	100202		5-0.70711			CMS02025
3413- CMS02025		100203		5 0.92388						
3414- MPC	1	502C	6	-1.	100200	6	1.00000			CMS02016
3415- CMS02016		100201	100202	6-0.92388	100202		6 0.70711			CMS02026
3416- CMS02026		100203		6-0.38268						
3417- MPC	1	502C	1	-1.	100200	1	1.00000			CMS02111
3418- CMS02111		100201	100202	1-1.00000	100202		1 1.00000			CMS02121
3419- CMS02121		100203		1-1.00000						
3420- MPC	1	502C	2	-1.	100200	2	1.00000			CMS02112
3421- CMS02112		100201	100202	2-1.00000	100202		2 1.00000			CMS02122
3422- CMS02122		100203		2-1.00000						
3423- MPC	1	502C	3	-1.	100200	3	.0			CMS02113
3424- CMS02113		100201	100202	3 0.00000	100202		3-0.00000			CMS02123
3425- CMS02123		100203		3 0.00000						
3426- MPC	1	502C	4	-1.	100200	4	.0			CMS02114
3427- CMS02114		100201	100202	4 0.00000	100202		4-0.00000			CMS02124
3428- CMS02124		100203		4 0.00000						
3429- MPC	1	502C	5	-1.	100200	5	.0			CMS02115
3430- CMS02115		100201	100202	5 0.00000	100202		5-0.00000			CMS02125
3431- CMS02125		100203		5 0.00000						
3432- MPC	1	502C	6	-1.	100200	6	1.00000			CMS02116
3433- CMS02116		100201	100202	6-1.00000	100202		6 1.00000			CMS02126
3434- CMS02126		100203		6-1.00000						
3435- MPC	1	502C	1	-1.	100300	1	1.00000			CMS02611
3436- CMS02611		100301	100302	1 1.00000	100302		1 1.00000			CMS02621
3437- CMS02621		100303		1 1.00000						
3438- MPC	1	502C	2	-1.	100300	2	1.00000			CMS02612
3439- CMS02612		100301	100302	2 1.00000	100302		2 1.00000			CMS02622
3440- CMS02622		100303		2 1.00000						
3441- MPC	1	502C	3	-1.	100300	3	.0			CMS02613
3442- CMS02613		100301	100302	3 0.0	100302		3 0.0			CMS02623
3443- CMS02623		100303		3 0.0						
3444- MPC	1	502C	4	-1.	100300	4	.0			CMS02614
3445- CMS02614		100301	100302	4 0.0	100302		4 0.0			CMS02624
3446- CMS02624		100303		4 0.0						
3447- MPC	1	502C	5	-1.	100300	5	.0			CMS02615
3448- CMS02615		100301	100302	5 0.0	100302		5 0.0			CMS02625
3449- CMS02625		100303		5 0.0						
3450- MPC	1	502C	6	-1.	100300	6	1.00000			CMS02616

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3451-	EMSC2616	10301	10301	6 1.0000	100302	6 1.0000	6 1.0000	9		EMSC2626
3452-	EMSC2626	10303	10303	6 1.0000						
3453-	MPC	5027	1	-1.	100300	1	1.00000			EMSC2711
3454-	EMSC2711	100301	100301	1 0.92388	100302	1	0.70711			EMSC2721
3455-	EMSC2721	100303	100303	1 0.38268						
3456-	MPC	5027	2	-1.	100300	2	1.00000			EMSC2712
3457-	EMSC2712	100301	100301	2 0.92388	100302	2	0.70711			EMSC2722
3458-	EMSC2722	100303	100303	2 0.38268						
3459-	MPC	5027	3	-1.	100300	3	.0			EMSC2713
3460-	EMSC2713	100301	100301	3 0.38268	100302	3	0.70711			EMSC2723
3461-	EMSC2723	100303	100303	3 0.92388						
3462-	MPC	5027	4	-1.	100300	4	.0			EMSC2714
3463-	EMSC2714	100301	100301	4 0.38268	100302	4	0.70711			EMSC2724
3464-	EMSC2724	100303	100303	4 0.92388						
3465-	MPC	5027	5	-1.	100300	5	.0			EMSC2715
3466-	EMSC2715	100301	100301	5 0.38268	100302	5	0.70711			EMSC2725
3467-	EMSC2725	100303	100303	5 0.92388						
3468-	MPC	5027	6	-1.	100300	6	1.00000			EMSC2716
3469-	EMSC2716	100301	100301	6 0.92388	100302	6	0.70711			EMSC2726
3470-	EMSC2726	100303	100303	6 0.38268						
3471-	MPC	5028	1	-1.	100300	1	1.00000			EMSC2811
3472-	EMSC2811	100301	100301	1 0.70711	100302	1	0.00000			EMSC2821
3473-	EMSC2821	100303	100303	1 -0.70711						
3474-	MPC	5028	2	-1.	100300	2	1.00000			EMSC2812
3475-	EMSC2812	100301	100301	2 0.70711	100302	2	0.00000			EMSC2822
3476-	EMSC2822	100303	100303	2 -0.70711						
3477-	MPC	5028	3	-1.	100300	3	.0			EMSC2813
3478-	EMSC2813	100301	100301	3 0.70711	100302	3	1.00000			EMSC2823
3479-	EMSC2823	100303	100303	3 0.70711						
3480-	MPC	5028	4	-1.	100300	4	.0			EMSC2814
3481-	EMSC2814	100301	100301	4 0.70711	100302	4	1.00000			EMSC2824
3482-	EMSC2824	100303	100303	4 0.70711						
3483-	MPC	5028	5	-1.	100300	5	.0			EMSC2815
3484-	EMSC2815	100301	100301	5 0.70711	100302	5	1.00000			EMSC2825
3485-	EMSC2825	100303	100303	5 0.70711						
3486-	MPC	5028	6	-1.	100300	6	1.00000			EMSC2816
3487-	EMSC2816	100301	100301	6 0.70711	100302	6	0.00000			EMSC2826
3488-	EMSC2826	100303	100303	6 -0.70711						
3489-	MPC	5029	1	-1.	100300	1	1.00000			EMSC2911
3490-	EMSC2911	100301	100301	1 0.38268	100302	1	-0.70711			EMSC2921
3491-	EMSC2921	100303	100303	1 -0.92388						
3492-	MPC	5029	2	-1.	100300	2	1.00000			EMSC2912
3493-	EMSC2912	100301	100301	2 0.38268	100302	2	-0.70711			EMSC2922
3494-	EMSC2922	100303	100303	2 -0.92388						
3495-	MPC	5029	3	-1.	100300	3	.0			EMSC2913
3496-	EMSC2913	100301	100301	3 0.92388	100302	3	0.70711			EMSC2923
3497-	EMSC2923	100303	100303	3 -0.38268						
3498-	MPC	5029	4	-1.	100300	4	.0			EMSC2914
3499-	EMSC2914	100301	100301	4 0.92388	100302	4	0.70711			EMSC2924
3500-	EMSC2924	100303	100303	4 -0.38268						

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CARD	1	2	3	4	5	6	7	8	9	10
3501-	MPG	1	5025	5	-1.	100300	5	.0		CMS02915
3502-	CMS02915		100301		5	0.92388	100302	5	0.70711	CMS02925
3503-	CMS02925		100303		5	0.38268				
3504-	MPG	1	5025	6	-1.	100300	6	1.00000		CMS02916
3505-	CMS02916		100301		6	0.38268	100302	6	0.70711	CMS02926
3506-	CMS02926		100303		6	0.92388				
3507-	MPG	1	5030	1	-1.	100300	1	1.00000		CMS03011
3508-	CMS03011		100301		1	0.00000	100302	1	-1.00000	CMS03021
3509-	CMS03021		100303		1	0.00000				
3510-	MPG	1	5030	2	-1.	100300	2	1.00000		CMS03012
3511-	CMS03012		100301		2	0.00000	100302	2	-1.00000	CMS03022
3512-	CMS03022		100303		2	0.00000				
3513-	MPG	1	5030	3	-1.	100300	3	.0		CMS03013
3514-	CMS03013		100301		3	1.00000	100302	3	0.00000	CMS03023
3515-	CMS03023		100303		3	-1.00000				
3516-	MPG	1	5030	4	-1.	100300	4	.0		CMS03014
3517-	CMS03014		100301		4	1.00000	100302	4	0.00000	CMS03024
3518-	CMS03024		100303		4	-1.00000				
3519-	MPG	1	5030	5	-1.	100300	5	.0		CMS03015
3520-	CMS03015		100301		5	1.00000	100302	5	0.00000	CMS03025
3521-	CMS03025		100303		5	-1.00000				
3522-	MPG	1	5030	6	-1.	100300	6	1.00000		CMS03016
3523-	CMS03016		100301		6	0.00000	100302	6	-1.00000	CMS03026
3524-	CMS03026		100303		6	0.00000				
3525-	MPG	1	5031	1	-1.	100300	1	1.00000		CMS03111
3526-	CMS03111		100301		1	0.38268	100302	1	-0.70711	CMS03121
3527-	CMS03121		100303		1	0.92388				
3528-	MPG	1	5031	2	-1.	100300	2	1.00000		CMS03112
3529-	CMS03112		100301		2	0.38268	100302	2	-0.70711	CMS03122
3530-	CMS03122		100303		2	0.92388				
3531-	MPG	1	5031	3	-1.	100300	3	.0		CMS03113
3532-	CMS03113		100301		3	0.92388	100302	3	-0.70711	CMS03123
3533-	CMS03123		100303		3	0.38268				
3534-	MPG	1	5031	4	-1.	100300	4	.0		CMS03114
3535-	CMS03114		100301		4	0.92388	100302	4	-0.70711	CMS03124
3536-	CMS03124		100303		4	0.38268				
3537-	MPG	1	5031	5	-1.	100300	5	.0		CMS03115
3538-	CMS03115		100301		5	0.92388	100302	5	-0.70711	CMS03125
3539-	CMS03125		100303		5	0.38268				
3540-	MPG	1	5031	6	-1.	100300	6	1.00000		CMS03116
3541-	CMS03116		100301		6	0.38268	100302	6	-0.70711	CMS03126
3542-	CMS03126		100303		6	0.92388				
3543-	MPG	1	5032	1	-1.	100300	1	1.00000		CMS03211
3544-	CMS03211		100301		1	0.70711	100302	1	-0.00000	CMS03221
3545-	CMS03221		100303		1	0.70711				
3546-	MPG	1	5032	2	-1.	100300	2	1.00000		CMS03212
3547-	CMS03212		100301		2	0.70711	100302	2	-0.00000	CMS03222
3548-	CMS03222		100303		2	0.70711				
3549-	MPG	1	5032	3	-1.	100300	3	.0		CMS03213
3550-	CMS03213		100301		3	0.70711	100302	3	-1.00000	CMS03223

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CAR)	COUNT	1	2	3	4	5	6	7	8	9	10
3591-	EM503223	1	5032	100303	3 0.70710	-1.	100300	4	.0		EM503214
3592-	MPC								4-1.00000		EM503224
3593-	EM503214	1	5032	100301	4 0.70710	4 0.70710	100302				
3594-	EM503224	1	5032	100303	4 0.70710	4 0.70710	100302				
3595-	MPC										EM503215
3595-	EM503215	1	5032	100301	5 0.70710	-1.	100300	5	.0		EM503225
3597-	EM503225	1	5032	100303	5 0.70710	5 0.70710	100302		5-1.00000		
3598-	MPC										EM503216
3598-	EM503216	1	5032	100301	6 0.70710	-1.	100300	6	1.00000		EM503226
3599-	EM503226	1	5032	100303	6 0.70710	6 0.70710	100302		6-0.00000		
3599-	MPC										EM503311
3599-	EM503311	1	5032	100301	1 0.92389	-1.	100300	1	1.00000		EM503321
3599-	EM503321	1	5032	100303	1 0.92389	1 0.92389	100302		1 0.70711		
3599-	MPC										EM503312
3599-	EM503312	1	5032	100301	2 0.92388	-1.	100300	2	1.00000		EM503322
3599-	EM503322	1	5032	100303	2 0.92388	2 0.92388	100302		2 0.70711		
3599-	MPC										EM503313
3599-	EM503313	1	5032	100301	3 0.38268	-1.	100300	3	.0		EM503323
3599-	EM503323	1	5032	100303	3 0.38268	3 0.38268	100302		3-0.70711		
3599-	MPC										EM503314
3599-	EM503314	1	5032	100301	4 0.38268	-1.	100300	4	.0		EM503324
3599-	EM503324	1	5032	100303	4 0.38268	4 0.38268	100302		4-0.70711		
3599-	MPC										EM503315
3599-	EM503315	1	5032	100301	5 0.38268	-1.	100300	5	.0		EM503325
3599-	EM503325	1	5032	100303	5 0.38268	5 0.38268	100302		5-0.70711		
3599-	MPC										EM503316
3599-	EM503316	1	5032	100301	6 0.92388	-1.	100300	6	1.00000		EM503326
3599-	EM503326	1	5032	100303	6 0.92388	6 0.92388	100302		6 0.70711		
3599-	MPC										EM503411
3599-	EM503411	1	5034	100301	1 1.00000	-1.	100300	1	1.00000		EM503421
3599-	EM503421	1	5034	100303	1 1.00000	1 1.00000	100302		1 1.00000		
3599-	MPC										EM503412
3599-	EM503412	1	5034	100301	2 1.00000	-1.	100300	2	1.00000		EM503422
3599-	EM503422	1	5034	100303	2 1.00000	2 1.00000	100302		2 1.00000		
3599-	MPC										EM503413
3599-	EM503413	1	5034	100301	3 0.00000	-1.	100300	3	.0		EM503423
3599-	EM503423	1	5034	100303	3 0.00000	3 0.00000	100302		3-0.00000		
3599-	MPC										EM503414
3599-	EM503414	1	5034	100301	4 0.00000	-1.	100300	4	.0		EM503424
3599-	EM503424	1	5034	100303	4 0.00000	4 0.00000	100302		4-0.00000		
3599-	MPC										EM503415
3599-	EM503415	1	5034	100301	5 0.00000	-1.	100300	5	.0		EM503425
3599-	EM503425	1	5034	100303	5 0.00000	5 0.00000	100302		5-0.00000		
3599-	MPC										EM503416
3599-	EM503416	1	5034	100301	6 1.00000	-1.	100300	6	1.00000		EM503426
3599-	EM503426	1	5034	100303	6 1.00000	6 1.00000	100302		6 1.00000		
3599-	MPC										EM503911
3599-	EM503911	1	5035	100401	1 1.00000	-1.	100400	1	1.00000		EM503921
3599-	EM503921	1	5035	100403	1 1.00000	1 1.00000	100402		1 1.00000		
3599-	MPC										EM503912
3599-	EM503912	1	5039	100401	2 1.00000	-1.	100400	2	1.00000		

CARD	1	2	3	4	5	6	7	8	9	10
3601-	CM503912	100401	100401	2	1.00000	100402	2	1.00000	9	CM503922
3602-	CM503922	100403	100403	2	1.00000	100402	2	1.00000		CM503922
3603-	MPC	5039	3	-1.	100400	3	3	0.0		CM503913
3604-	CM503913	100401	100401	3	0.0	100402	3	0.0		CM503923
3605-	CM503923	100403	100403	3	0.0	100402	3	0.0		CM503923
3606-	MPC	5039	4	-1.	100400	4	4	0.0		CM503914
3607-	CM503914	100401	100401	4	0.0	100402	4	0.0		CM503924
3608-	CM503924	100403	100403	4	0.0	100402	4	0.0		CM503924
3609-	MPC	5035	5	-1.	100400	5	5	0.0		CM503915
3610-	CM503915	100401	100401	5	0.0	100402	5	0.0		CM503925
3611-	CM503925	100403	100403	5	0.0	100402	5	0.0		CM503925
3612-	MPC	5035	6	-1.	100400	6	6	1.00000		CM503916
3613-	CM503916	100401	100401	6	1.00000	100402	6	1.00000		CM503926
3614-	CM503926	100403	100403	6	1.00000	100402	6	1.00000		CM503926
3615-	MPC	5040	1	-1.	100400	1	1	1.00000		CM504011
3616-	CM504011	100401	100401	1	0.92388	100402	1	0.70711		CM504021
3617-	CM504021	100403	100403	1	0.38268	100402	1	0.70711		CM504021
3618-	MPC	5040	2	-1.	100400	2	2	1.00000		CM504012
3619-	CM504012	100401	100401	2	0.92388	100402	2	0.70711		CM504012
3620-	CM504022	100403	100403	2	0.38268	100402	2	0.70711		CM504022
3621-	MPC	5040	3	-1.	100400	3	3	0.70711		CM504013
3622-	CM504013	100401	100401	3	0.38268	100402	3	0.70711		CM504023
3623-	CM504023	100403	100403	3	0.92388	100402	3	0.70711		CM504023
3624-	MPC	5040	4	-1.	100400	4	4	0.70711		CM504014
3625-	CM504014	100401	100401	4	0.38268	100402	4	0.70711		CM504024
3626-	CM504024	100403	100403	4	0.92388	100402	4	0.70711		CM504024
3627-	MPC	5040	5	-1.	100400	5	5	0.70711		CM504015
3628-	CM504015	100401	100401	5	0.38268	100402	5	0.70711		CM504025
3629-	CM504025	100403	100403	5	0.92388	100402	5	0.70711		CM504025
3630-	MPC	5040	6	-1.	100400	6	6	1.00000		CM504016
3631-	CM504016	100401	100401	6	0.92388	100402	6	0.70711		CM504026
3632-	CM504026	100403	100403	6	0.38268	100402	6	0.70711		CM504026
3633-	MPC	5041	1	-1.	100400	1	1	0.00000		CM504111
3634-	CM504111	100401	100401	1	0.70711	100402	1	0.00000		CM504121
3635-	CM504121	100403	100403	1	0.70711	100402	1	0.00000		CM504121
3636-	MPC	5041	2	-1.	100400	2	2	1.00000		CM504112
3637-	CM504112	100401	100401	2	0.70711	100402	2	0.00000		CM504122
3638-	CM504122	100403	100403	2	0.70711	100402	2	0.00000		CM504122
3639-	MPC	5041	3	-1.	100400	3	3	1.00000		CM504113
3640-	CM504113	100401	100401	3	0.70711	100402	3	1.00000		CM504123
3641-	CM504123	100403	100403	3	0.70711	100402	3	1.00000		CM504123
3642-	MPC	5041	4	-1.	100400	4	4	1.00000		CM504114
3643-	CM504114	100401	100401	4	0.70711	100402	4	1.00000		CM504124
3644-	CM504124	100403	100403	4	0.70711	100402	4	1.00000		CM504124
3645-	MPC	5041	5	-1.	100400	5	5	1.00000		CM504115
3646-	CM504115	100401	100401	5	0.70711	100402	5	1.00000		CM504125
3647-	CM504125	100403	100403	5	0.70711	100402	5	1.00000		CM504125
3648-	MPC	5041	6	-1.	100400	6	6	1.00000		CM504116
3649-	CM504116	100401	100401	6	0.70711	100402	6	0.00000		CM504126
3650-	CM504126	100403	100403	6	0.70711	100402	6	0.00000		CM504126

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1	2	3	4	5	6	7	8	9	10
MPC	5042	1		-1.	100400	1	1.00000		EM504211
EM504211	100401			1 0.38268	100402		-0.70711		EM504221
EM504221	100403			1-0.92388					
MPC	5042	2		-1.	100400	2	1.00000		EM504212
EM504212	100401			2 0.38268	100402		2-0.70711		EM504222
EM504222	100403			2-0.92388					
MPC	5042	3		-1.	100400	3	.0		EM504213
EM504213	100401			3 0.92388	100402		3 0.70711		EM504223
EM504223	100403			3-0.38268					
MPC	5042	4		-1.	100400	4	.0		EM504214
EM504214	100401			4 0.92388	100402		4 0.70711		EM504224
EM504224	100403			4-0.38268					
MPC	5042	5		-1.	100400	5	.0		EM504215
EM504215	100401			5 0.92388	100402		5 0.70711		EM504225
EM504225	100403			5-0.38268					
MPC	5042	6		-1.	100400	6	1.00000		EM504216
EM504216	100401			6 0.38268	100402		6-0.70711		EM504226
EM504226	100403			6-0.92388					
MPC	5042	1		-1.	100400	1	1.00000		EM504311
EM504311	100401			1 0.00000	100402		1-1.00000		EM504321
EM504321	100403			1-0.00000					
MPC	5042	2		-1.	100400	2	1.00000		EM504312
EM504312	100401			2 0.00000	100402		2-1.00000		EM504322
EM504322	100403			2-0.00000					
MPC	5042	3		-1.	100400	3	.0		EM504313
EM504313	100401			3 1.00000	100402		3 0.00000		EM504323
EM504323	100403			3-1.00000					
MPC	5042	4		-1.	100400	4	.0		EM504314
EM504314	100401			4 1.00000	100402		4 0.00000		EM504324
EM504324	100403			4-1.00000					
MPC	5042	5		-1.	100400	5	.0		EM504315
EM504315	100401			5 1.00000	100402		5 0.00000		EM504325
EM504325	100403			5-1.00000					
MPC	5042	6		-1.	100400	6	1.00000		EM504316
EM504316	100401			6 0.00000	100402		6-1.00000		EM504326
EM504326	100403			6-0.00000					
MPC	5044	1		-1.	100400	1	1.00000		EM504411
EM504411	100401			1 0.38268	100402		1-0.70711		EM504421
EM504421	100403			1 0.92388					
MPC	5044	2		-1.	100400	2	1.00000		EM504412
EM504412	100401			2 0.38268	100402		2-0.70711		EM504422
EM504422	100403			2 0.92388					
MPC	5044	3		-1.	100400	3	.0		EM504413
EM504413	100401			3 0.92388	100402		3-0.70711		EM504423
EM504423	100403			3-0.38268					
MPC	5044	4		-1.	100400	4	.0		EM504414
EM504414	100401			4 0.92388	100402		4-0.70711		EM504424
EM504424	100403			4-0.38268					
MPC	5044	5		-1.	100400	5	.0		EM504415
EM504415	100401			5 0.92388	100402		5-0.70711		EM504425
EM504425	100403			5-0.38268					

CARD	1	2	3	4	5	6	7	8	9	10
3701-	EM504425	1	100403	5-0.38269						
3702-	MPC	5044	6		100400	6	1.00000			EM504416
3703-	EM504416	1	100401	-1.	100400	6	6-0.70711			EM504426
3704-	EM504426	1	100403	6 0.92388						
3705-	MPC	5045	1		100400	1	1.00000			EM504511
3706-	EM504511	1	100401	1-0.70711	100402		1-0.00000			EM504521
3707-	EM504521	1	100403	1 0.70711						
3708-	MPC	5046	2		100400	2	1.00000			EM504512
3709-	EM504512	1	100401	-1.	100400	2	2-0.00000			EM504522
3710-	EM504522	1	100403	2 0.70711						
3711-	MPC	5047	3		100400	3	.0			EM504513
3712-	EM504513	1	100401	3 0.70711	100402		3-1.00000			EM504523
3713-	EM504523	1	100403	3 0.70710						
3714-	MPC	5048	4		100400	4	.0			EM504514
3715-	EM504514	1	100401	-1.	100400	4	4-1.00000			EM504524
3716-	EM504524	1	100403	4 0.70711	100402					
3717-	MPC	5049	5		100400	5	.0			EM504515
3718-	EM504515	1	100401	-1.	100400	5	5-1.00000			EM504525
3719-	EM504525	1	100403	5 0.70711	100402					
3720-	MPC	504A	6		100400	6	1.00000			EM504516
3721-	EM504516	1	100401	-1.	100400	6	6-0.00000			EM504526
3722-	EM504526	1	100403	6 0.70711						
3723-	MPC	504B	1		100400	1	1.00000			EM504611
3724-	EM504611	1	100401	1-0.92388	100402		1 0.70711			EM504621
3725-	EM504621	1	100403	1-0.38268						
3726-	MPC	504C	2		100400	2	1.00000			EM504612
3727-	EM504612	1	100401	-1.	100400	2	2 0.70711			EM504622
3728-	EM504622	1	100403	2-0.92388	100402					
3729-	MPC	504D	3		100400	3	.0			EM504613
3730-	EM504613	1	100401	-1.	100400	3	3-0.70711			EM504623
3731-	EM504623	1	100403	3 0.38268	100402					
3732-	MPC	504E	4		100400	4	.0			EM504614
3733-	EM504614	1	100401	4 0.38268	100402		4-0.70711			EM504624
3734-	EM504624	1	100403	4 0.92388						
3735-	MPC	504F	5		100400	5	.0			EM504615
3736-	EM504615	1	100401	-1.	100400	5	5-0.70711			EM504625
3737-	EM504625	1	100403	5 0.38268	100402					
3738-	MPC	504G	6		100400	6	1.00000			EM504616
3739-	EM504616	1	100401	-1.	100400	6	6 0.70711			EM504626
3740-	EM504626	1	100403	6-0.38268						
3741-	MPC	5047	1		100400	1	1.00000			EM504711
3742-	EM504711	1	100401	1-1.00000	100402		1 1.00000			EM504721
3743-	EM504721	1	100403	1-1.00000						
3744-	MPC	5047	2		100400	2	1.00000			EM504712
3745-	EM504712	1	100401	-1.	100400	2	2 1.00000			EM504722
3746-	EM504722	1	100403	2-1.00000	100402					
3747-	MPC	5047	3		100400	3	.0			EM504713
3748-	EM504713	1	100401	3 0.00000	100402		3-0.00000			EM504723
3749-	EM504723	1	100403	3 0.00000						
3750-	MPC	5047	4		100400	4	.0			EM504714

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3751-	EM504714	100401	4 0.00000	100402	4-0.00000	4-0.00000	4-0.00000	4-0.00000	4-0.00000	EM504724
3752-	EM504724	100403	4 0.00000	100402	4 0.00000	4-0.00000	4-0.00000	4-0.00000	4-0.00000	EM504725
3753-	MPC	5047	5	100400	5	5-0.00000	5-0.00000	5-0.00000	5-0.00000	EM504715
3754-	EM504715	100401	5 0.00000	100402	5 0.00000	5-0.00000	5-0.00000	5-0.00000	5-0.00000	EM504725
3755-	EM504725	100403	5 0.00000	100402	5 0.00000	5-0.00000	5-0.00000	5-0.00000	5-0.00000	EM504716
3756-	MPC	5047	6	100400	6	6-1.00000	6-1.00000	6-1.00000	6-1.00000	EM504726
3757-	EM504716	100401	6-1.00000	100402	6-1.00000	6-1.00000	6-1.00000	6-1.00000	6-1.00000	EM504716
3758-	EM504726	100403	6-1.00000	100402	6-1.00000	6-1.00000	6-1.00000	6-1.00000	6-1.00000	EM504726
3759-	MPC	5052	1	100500	1	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505211
3760-	EM505211	100501	1 1.00000	100502	1 1.00000	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505221
3761-	EM505221	100503	1 1.00000	100502	1 1.00000	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505221
3762-	MPC	5052	2	100500	2	2-1.00000	2-1.00000	2-1.00000	2-1.00000	EM505212
3763-	EM505212	100501	2 1.00000	100502	2 1.00000	2-1.00000	2-1.00000	2-1.00000	2-1.00000	EM505222
3764-	EM505222	100503	2 1.00000	100502	2 1.00000	2-1.00000	2-1.00000	2-1.00000	2-1.00000	EM505222
3765-	MPC	5052	3	100500	3	3-0.0	3-0.0	3-0.0	3-0.0	EM505213
3766-	EM505213	100501	3 0.0	100502	3 0.0	3-0.0	3-0.0	3-0.0	3-0.0	EM505223
3767-	EM505223	100503	3 0.0	100502	3 0.0	3-0.0	3-0.0	3-0.0	3-0.0	EM505223
3768-	MPC	5052	4	100500	4	4-0.0	4-0.0	4-0.0	4-0.0	EM505214
3769-	EM505214	100501	4 0.0	100502	4 0.0	4-0.0	4-0.0	4-0.0	4-0.0	EM505224
3770-	EM505224	100503	4 0.0	100502	4 0.0	4-0.0	4-0.0	4-0.0	4-0.0	EM505224
3771-	MPC	5052	5	100500	5	5-0.0	5-0.0	5-0.0	5-0.0	EM505215
3772-	EM505215	100501	5 0.0	100502	5 0.0	5-0.0	5-0.0	5-0.0	5-0.0	EM505225
3773-	EM505225	100503	5 0.0	100502	5 0.0	5-0.0	5-0.0	5-0.0	5-0.0	EM505225
3774-	MPC	5052	6	100500	6	6-1.00000	6-1.00000	6-1.00000	6-1.00000	EM505216
3775-	EM505216	100501	6 1.00000	100502	6 1.00000	6-1.00000	6-1.00000	6-1.00000	6-1.00000	EM505226
3776-	EM505226	100503	6 1.00000	100502	6 1.00000	6-1.00000	6-1.00000	6-1.00000	6-1.00000	EM505226
3777-	MPC	5053	1	100500	1	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505311
3778-	EM505311	100501	1 0.92388	100502	1 0.92388	1-0.70711	1-0.70711	1-0.70711	1-0.70711	EM505321
3779-	EM505321	100503	1 0.38268	100502	1 0.38268	1-0.70711	1-0.70711	1-0.70711	1-0.70711	EM505321
3780-	MPC	5053	2	100500	2	2-0.92388	2-0.92388	2-0.70711	2-0.70711	EM505312
3781-	EM505312	100501	2 0.92388	100502	2 0.92388	2-0.70711	2-0.70711	2-0.70711	2-0.70711	EM505322
3782-	EM505322	100503	2 0.38268	100502	2 0.38268	2-0.70711	2-0.70711	2-0.70711	2-0.70711	EM505322
3783-	MPC	5053	3	100500	3	3-0.38268	3-0.38268	3-0.70711	3-0.70711	EM505313
3784-	EM505313	100501	3 0.38268	100502	3 0.38268	3-0.70711	3-0.70711	3-0.70711	3-0.70711	EM505323
3785-	EM505323	100503	3 0.92388	100502	3 0.92388	3-0.70711	3-0.70711	3-0.70711	3-0.70711	EM505323
3786-	MPC	5053	4	100500	4	4-0.38268	4-0.38268	4-0.70711	4-0.70711	EM505314
3787-	EM505314	100501	4 0.38268	100502	4 0.38268	4-0.70711	4-0.70711	4-0.70711	4-0.70711	EM505324
3788-	EM505324	100503	4 0.92388	100502	4 0.92388	4-0.70711	4-0.70711	4-0.70711	4-0.70711	EM505324
3789-	MPC	5053	5	100500	5	5-0.38268	5-0.38268	5-0.70711	5-0.70711	EM505315
3790-	EM505315	100501	5 0.38268	100502	5 0.38268	5-0.70711	5-0.70711	5-0.70711	5-0.70711	EM505325
3791-	EM505325	100503	5 0.92388	100502	5 0.92388	5-0.70711	5-0.70711	5-0.70711	5-0.70711	EM505325
3792-	MPC	5053	6	100500	6	6-0.38268	6-0.38268	6-0.70711	6-0.70711	EM505316
3793-	EM505316	100501	6 0.38268	100502	6 0.38268	6-0.70711	6-0.70711	6-0.70711	6-0.70711	EM505326
3794-	EM505326	100503	6 0.92388	100502	6 0.92388	6-0.70711	6-0.70711	6-0.70711	6-0.70711	EM505326
3795-	MPC	5054	1	100500	1	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505411
3796-	EM505411	100501	1 0.70711	100502	1 0.70711	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505421
3797-	EM505421	100503	1-0.70711	100502	1-0.70711	1-1.00000	1-1.00000	1-1.00000	1-1.00000	EM505421
3798-	MPC	5054	2	100500	2	2-0.70711	2-0.70711	2-1.00000	2-1.00000	EM505412
3799-	EM505412	100501	2 0.70711	100502	2 0.70711	2-1.00000	2-1.00000	2-1.00000	2-1.00000	EM505422
3800-	EM505422	100503	2-0.70711	100502	2-0.70711	2-1.00000	2-1.00000	2-1.00000	2-1.00000	EM505422

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3901-	MPG	1	5054	3	-1.	100500	3	.0		EM505413
3902-	EM505413		100501		3	0.70711	100502	3	1.00000	EM505423
3903-	EM505423		100503		3	0.70711				
3904-	MPG	1	5054	4	-1.	100500	4	.0		EM505414
3905-	EM505414		100501		4	0.70711	100502	4	1.00000	EM505424
3906-	EM505424		100503		4	0.70711				
3907-	MPG	1	5054	5	-1.	100500	5	.0		EM505415
3908-	EM505415		100501		5	0.70711	100502	5	1.00000	EM505425
3909-	EM505425		100503		5	0.70711				
3910-	MPG	1	5054	6	-1.	100500	6	1.00000		EM505416
3911-	EM505416		100501		6	0.70711	100502	6	0.00000	EM505426
3912-	EM505426		100503		6	0.70711				
3913-	MPG	1	5055	1	-1.	100500	1	1.00000		EM505511
3914-	EM505511		100501		1	0.39268	100502	1	-0.70711	EM505521
3915-	EM505521		100503		1	-0.92388				
3916-	MPG	1	5055	2	-1.	100500	2	1.00000		EM505512
3917-	EM505512		100501		2	0.39268	100502	2	-0.70711	EM505522
3918-	EM505522		100503		2	-0.92388				
3919-	MPG	1	5055	3	-1.	100500	3	.0		EM505513
3920-	EM505513		100501		3	0.92388	100502	3	0.70711	EM505523
3921-	EM505523		100503		3	-0.39268				
3922-	MPG	1	5055	4	-1.	100500	4	.0		EM505514
3923-	EM505514		100501		4	0.92388	100502	4	0.70711	EM505524
3924-	EM505524		100503		4	-0.39268				
3925-	MPG	1	5055	5	-1.	100500	5	.0		EM505515
3926-	EM505515		100501		5	0.92388	100502	5	0.70711	EM505525
3927-	EM505525		100503		5	-0.39268				
3928-	MPG	1	5055	6	-1.	100500	6	1.00000		EM505516
3929-	EM505516		100501		6	0.39268	100502	6	-0.70711	EM505526
3930-	EM505526		100503		6	-0.92388				
3931-	MPG	1	5056	1	-1.	100500	1	1.00000		EM505611
3932-	EM505611		100501		1	0.00000	100502	1	-1.00000	EM505621
3933-	EM505621		100503		1	-0.00000				
3934-	MPG	1	5056	2	-1.	100500	2	1.00000		EM505612
3935-	EM505612		100501		2	0.00000	100502	2	-1.00000	EM505622
3936-	EM505622		100503		2	-0.00000				
3937-	MPG	1	5056	3	-1.	100500	3	.0		EM505613
3938-	EM505613		100501		3	1.00000	100502	3	0.00000	EM505623
3939-	EM505623		100503		3	-1.00000				
3940-	MPG	1	5056	4	-1.	100500	4	.0		EM505614
3941-	EM505614		100501		4	1.00000	100502	4	0.00000	EM505624
3942-	EM505624		100503		4	-1.00000				
3943-	MPG	1	5056	5	-1.	100500	5	.0		EM505615
3944-	EM505615		100501		5	1.00000	100502	5	0.00000	EM505625
3945-	EM505625		100503		5	-1.00000				
3946-	MPG	1	5056	6	-1.	100500	6	1.00000		EM505616
3947-	EM505616		100501		6	0.00000	100502	6	-1.00000	EM505626
3948-	EM505626		100503		6	-0.00000				
3949-	MPG	1	5057	1	-1.	100500	1	1.00000		EM505711
3950-	EM505711		100501		1	-0.39268	100502	1	-0.70711	EM505721

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3861	CM505721	1	100503	1	0.92388					
3862	MPC	5057	2	-1.	100500	2	1.00000			CM505712
3863	CM505712	100501		2-0.38268	100502		2-0.70711			CM505722
3864	CM505722	100503		2	0.92388					
3865	MPC	5057	3	-1.	100500	3	.0			CM505713
3866	CM505713	100501		3	0.92388	100502	3-0.70711			CM505723
3867	CM505723	100503		3-0.38269						
3868	MPC	5057	4	-1.	100500	4	.0			CM505714
3869	CM505714	100501		4	0.92388	100502	4-0.70711			CM505724
3870	CM505724	100503		4-0.38269						
3871	MPC	5057	5	-1.	100500	5	.0			CM505715
3872	CM505715	100501		5	0.92388	100502	5-0.70711			CM505725
3873	CM505725	100503		5-0.38269						
3874	MPC	5057	6	-1.	100500	6	1.00000			CM505716
3875	CM505716	100501		6-0.38268	100502		6-0.70711			CM505726
3876	CM505726	100503		6	0.92388					
3877	MPC	5058	1	-1.	100500	1	1.00000			CM505811
3878	CM505811	100501		1-0.70711	100502		1-0.00000			CM505821
3879	CM505821	100503		1	0.70711					
3880	MPC	5058	2	-1.	100500	2	1.00000			CM505812
3881	CM505812	100501		2-0.70711	100502		2-0.00000			CM505822
3882	CM505822	100503		2	0.70711					
3883	MPC	5058	3	-1.	100500	3	.0			CM505813
3884	CM505813	100501		3	0.70711	100502	3-1.00000			CM505823
3885	CM505823	100503		3	0.70710					
3886	MPC	5058	4	-1.	100500	4	.0			CM505814
3887	CM505814	100501		4	0.70711	100502	4-1.00000			CM505824
3888	CM505824	100503		4	0.70710					
3889	MPC	5058	5	-1.	100500	5	.0			CM505815
3890	CM505815	100501		5	0.70711	100502	5-1.00000			CM505825
3891	CM505825	100503		5	0.70710					
3892	MPC	5058	6	-1.	100500	6	1.00000			CM505816
3893	CM505816	100501		6-0.70711	100502		6-0.00000			CM505826
3894	CM505826	100503		6	0.70711					
3895	MPC	5059	1	-1.	100500	1	1.00000			CM505911
3896	CM505911	100501		1-0.92388	100502		1	0.70711		CM505921
3897	CM505921	100503		1-0.38268						
3898	MPC	5059	2	-1.	100500	2	1.00000			CM505912
3899	CM505912	100501		2-0.92388	100502		2	0.70711		CM505922
3900	CM505922	100503		2-0.38268						
3901	MPC	5059	3	-1.	100500	3	.0			CM505913
3902	CM505913	100501		3	0.38268	100502	3-0.70711			CM505923
3903	CM505923	100503		3	0.92388					
3904	MPC	5059	4	-1.	100500	4	.0			CM505914
3905	CM505914	100501		4	0.38268	100502	4-0.70711			CM505924
3906	CM505924	100503		4	0.92388					
3907	MPC	5059	5	-1.	100500	5	.0			CM505915
3908	CM505915	100501		5	0.38268	100502	5-0.70711			CM505925
3909	CM505925	100503		5	0.92388					
3910	MPC	5059	6	-1.	100500	6	1.00000			CM505916

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3901-	EM505916	100501	6-0.92388	100502	6 0.70711	9	EM505926			
3902-	EM505926	100503	6-0.38268							
3903-	MPC	5060	1	100500	1	1.00000				EM506011
3904-	EM506011	100501	1-1.00000	100502	1	1.00000				EM506021
3905-	EM506021	100503	1-1.00000							
3906-	MPC	5060	2	100500	2	1.00000				EM506012
3907-	EM506012	100501	2-1.00000	100502	2	1.00000				EM506022
3908-	EM506022	100503	2-1.00000							
3909-	MPC	5060	3	100500	3	.0				EM506013
3910-	EM506013	100501	3 0.00000	100502	3-0.00000					EM506023
3911-	EM506023	100503	3 0.00000							
3912-	MPC	5060	4	100500	4	.0				EM506014
3913-	EM506014	100501	4 0.00000	100502	4-0.00000					EM506024
3914-	EM506024	100503	4 0.00000							
3915-	MPC	5060	5	100500	5	.0				EM506015
3916-	EM506015	100501	5 0.00000	100502	5-0.00000					EM506025
3917-	EM506025	100503	5 0.00000							
3918-	MPC	5060	6	100500	6	1.00000				EM506016
3919-	EM506016	100501	6-1.00000	100502	6 1.00000					EM506026
3920-	EM506026	100503	6-1.00000							
3921-	MPC	5065	1	100600	1	1.00000				EM506511
3922-	EM506511	100601	1 1.00000	100602	1 1.00000					EM506521
3923-	EM506521	100603	1 1.00000							
3924-	MPC	5065	2	100600	2	1.00000				EM506512
3925-	EM506512	100601	2 1.00000	100602	2 1.00000					EM506522
3926-	EM506522	100603	2 1.00000							
3927-	MPC	5065	3	100600	3	.0				EM506513
3928-	EM506513	100601	3 0.0	100602	3 0.0					EM506523
3929-	EM506523	100603	3 0.0							
3930-	MPC	5065	4	100600	4	.0				EM506514
3931-	EM506514	100601	4 0.0	100602	4 0.0					EM506524
3932-	EM506524	100603	4 0.0							
3933-	MPC	5065	5	100600	5	.0				EM506515
3934-	EM506515	100601	5 0.0	100602	5 0.0					EM506525
3935-	EM506525	100603	5 0.0							
3936-	MPC	5065	6	100600	6	1.00000				EM506516
3937-	EM506516	100601	6 1.00000	100602	6 1.00000					EM506526
3938-	EM506526	100603	6 1.00000							
3939-	MPC	5066	1	100600	1	1.00000				EM506611
3940-	EM506611	100601	1 0.92388	100602	1 0.70711					EM506621
3941-	EM506621	100603	1 0.38268							
3942-	MPC	5066	2	100600	2	1.00000				EM506612
3943-	EM506612	100601	2 0.92388	100602	2 0.70711					EM506622
3944-	EM506622	100603	2 0.38268							
3945-	MPC	5066	3	100600	3	.0				EM506613
3946-	EM506613	100601	3 0.38268	100602	3 0.70711					EM506623
3947-	EM506623	100603	3 0.92388							
3948-	MPC	5066	4	100600	4	.0				EM506614
3949-	EM506614	100601	4 0.38268	100602	4 0.70711					EM506624
3950-	EM506624	100603	4 0.92388							

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
3951-	MPC	5066	5	-1.	100600	5	.0			EM506615
3952-	EM506615	100601	5	5 0.38268	100602		5 0.70711			EM506625
3953-	EM506625	100603		5 0.92388						
3954-	MPC	5066	6	-1.	100600	6	1.00000			EM506616
3955-	EM506616	100601	6	6 0.92388	100602		6 0.70711			EM506626
3956-	EM506626	100603		6 0.38268						
3957-	MPC	5067	1	-1.	100600	1	1.00000			EM506711
3958-	EM506711	100601	1	1 0.70711	100602		1 0.00000			EM506721
3959-	EM506721	100603		1 0.70711						
3960-	MPC	5067	2	-1.	100600	2	1.00000			EM506712
3961-	EM506712	100601	2	2 0.70711	100602		2 0.00000			EM506722
3962-	EM506722	100603		2 0.70711						
3963-	MPC	5067	3	-1.	100600	3	.0			EM506713
3964-	EM506713	100601	3	3 0.70711	100602		3 1.00000			EM506723
3965-	EM506723	100603		3 0.70711						
3966-	MPC	5067	4	-1.	100600	4	.0			EM506714
3967-	EM506714	100601	4	4 0.70711	100602		4 1.00000			EM506724
3968-	EM506724	100603		4 0.70711						
3969-	MPC	5067	5	-1.	100600	5	.0			EM506715
3970-	EM506715	100601	5	5 0.70711	100602		5 1.00000			EM506725
3971-	EM506725	100603		5 0.70711						
3972-	MPC	5067	6	-1.	100600	6	1.00000			EM506716
3973-	EM506716	100601	6	6 0.70711	100602		6 0.00000			EM506726
3974-	EM506726	100603		6 0.70711						
3975-	MPC	5068	1	-1.	100600	1	1.00000			EM506811
3976-	EM506811	100601	1	1 0.38268	100602		1 0.70711			EM506821
3977-	EM506821	100603		1 0.92388						
3978-	MPC	5068	2	-1.	100600	2	1.00000			EM506812
3979-	EM506812	100601	2	2 0.38268	100602		2 0.70711			EM506822
3980-	EM506822	100603		2 0.92388						
3981-	MPC	5068	3	-1.	100600	3	.0			EM506813
3982-	EM506813	100601	3	3 0.92388	100602		3 0.70711			EM506823
3983-	EM506823	100603		3 0.38268						
3984-	MPC	5068	4	-1.	100600	4	.0			EM506814
3985-	EM506814	100601	4	4 0.92388	100602		4 0.70711			EM506824
3986-	EM506824	100603		4 0.38268						
3987-	MPC	5068	5	-1.	100600	5	.0			EM506815
3988-	EM506815	100601	5	5 0.92388	100602		5 0.70711			EM506825
3989-	EM506825	100603		5 0.38268						
3990-	MPC	5068	6	-1.	100600	6	1.00000			EM506816
3991-	EM506816	100601	6	6 0.38268	100602		6 0.70711			EM506826
3992-	EM506826	100603		6 0.92388						
3993-	MPC	5068	1	-1.	100600	1	1.00000			EM506911
3994-	EM506911	100601	1	1 0.00000	100602		1 1.00000			EM506921
3995-	EM506921	100603		1 0.00000						
3996-	MPC	5068	2	-1.	100600	2	1.00000			EM506912
3997-	EM506912	100601	2	2 0.00000	100602		2 1.00000			EM506922
3998-	EM506922	100603		2 0.00000						
3999-	MPC	5068	3	-1.	100600	3	.0			EM506913
4000-	EM506913	100601	3	3 1.00000	100602		3 0.00000			EM506923
		100603		3 1.00000						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CM507212	100601	2-0.92388	100602							CM507222
CM507222	100603	2-0.38268								CM507213
MPC	5072	-1.	100600	3	.0	3-0.70711				CM507223
CM507213	100601	3 0.38269	100602							CM507214
CM507223	100603	3 0.92389								CM507224
MPC	5072	-1.	100600	4	.0	4-0.70711				CM507215
CM507214	100601	4 0.38268	100602							CM507225
CM507224	100603	4 0.92389								CM507216
MPC	5072	-1.	100600	5	.0	5-0.70711				CM507226
CM507215	100601	5 0.38269	100602							CM507311
CM507225	100603	5 0.92389								CM507312
MPC	5072	-1.	100600	6	1.00000	6 0.70711				CM507321
CM507216	100601	6-0.92389	100602							CM507313
CM507226	100603	6-0.38268								CM507312
MPC	5072	-1.	100600	1	1.00000	1 1.00000				CM507322
CM507311	100601	1-1.00000	100602							CM507313
CM507321	100603	1-1.00000								CM507323
MPC	5072	-1.	100600	2	1.00000	2 1.00000				CM507314
CM507312	100601	2-1.00000	100602							CM507324
CM507322	100603	2-1.00000								CM507315
MPC	5072	-1.	100600	3	.0	3-0.00000				CM507325
CM507313	100601	3 0.00000	100602							CM507316
CM507323	100603	3 0.00000								CM507326
MPC	5072	-1.	100600	4	.0	4-0.00000				CM507811
CM507314	100601	4 0.00000	100602							CM507821
CM507324	100603	4 0.00000								CM507812
MPC	5072	-1.	100600	5	.0	5-0.00000				CM507822
CM507315	100601	5 0.00000	100602							CM507813
CM507325	100603	5 0.00000								CM507823
MPC	5072	-1.	100600	6	1.00000	6 1.00000				CM507814
CM507316	100601	6-1.00000	100602							CM507824
CM507326	100603	6-1.00000								CM507815
MPC	5072	-1.	100600	1	1.00000	1 1.00000				CM507825
CM507811	100701	1 1.00000	100702							CM507816
CM507821	100703	1 1.00000								CM507826
MPC	5072	-1.	100700	2	.0	2 0.0				
CM507812	100701	2 0.0	100702							
CM507822	100703	2 0.0								
MPC	5072	-1.	100700	3	1.00000	3 1.00000				
CM507813	100701	3 1.00000	100702							
CM507823	100703	3 1.00000								
MPC	5072	-1.	100700	4	.0	4 0.0				
CM507814	100701	4 0.0	100702							
CM507824	100703	4 0.0								
MPC	5072	-1.	100700	5	1.00000	5 1.00000				
CM507815	100701	5 1.00000	100702							
CM507825	100703	5 1.00000								
MPC	5072	-1.	100700	6	.0	6 0.0				
CM507816	100701	6 0.0	100702							
CM507826	100703	6 0.0								

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4101- MPC	5079 1	-1.	100700 1	100702	1.00000					EM507911
4102- EM507911	100701	1 0.92388	100702		0.70711					EM507921
4103- MPC	5079 2	-1.	100700 2	100702	2 0.70711					EM507912
4104- EM507912	100701	2 0.38268	100702		0.70711					EM507922
4105- EM507922	100703	1 0.38268								
4106- MPC	5079 3	-1.	100700 3	100702	1.00000					EM507913
4107- EM507913	100701	3 0.92388	100702		0.70711					EM507923
4108- EM507923	100703	3 0.38268								
4109- MPC	5079 4	-1.	100700 4	100702	4 0.70711					EM507914
4110- EM507914	100701	4 0.38268	100702		0.70711					EM507924
4111- EM507924	100703	4 0.92388								
4112- MPC	5079 5	-1.	100700 5	100702	1.00000					EM507915
4113- EM507915	100701	5 0.92388	100702		0.70711					EM507925
4114- EM507925	100703	5 0.38268								
4115- MPC	5079 6	-1.	100700 6	100702	6 0.70711					EM507916
4116- EM507916	100701	6 0.38268	100702		0.70711					EM507926
4117- EM507926	100703	6 0.92388								
4118- MPC	5080 1	-1.	100700 1	100702	1.00000					EM508011
4119- EM508011	100701	1 0.70711	100702		0.00000					EM508021
4120- EM508021	100703	1 0.70711								
4121- MPC	5080 2	-1.	100700 2	100702	2 1.00000					EM508012
4122- EM508012	100701	2 0.70711	100702		0.00000					EM508022
4123- EM508022	100703	2 0.70711								
4124- MPC	5080 3	-1.	100700 3	100702	3 0.00000					EM508013
4125- EM508013	100701	3 0.70711	100702		0.00000					EM508023
4126- EM508023	100703	3 0.70711								
4127- MPC	5080 4	-1.	100700 4	100702	4 1.00000					EM508014
4128- EM508014	100701	4 0.70711	100702		0.00000					EM508024
4129- EM508024	100703	4 0.70711								
4130- MPC	5080 5	-1.	100700 5	100702	5 0.00000					EM508015
4131- EM508015	100701	5 0.70711	100702		0.00000					EM508025
4132- EM508025	100703	5 0.70711								
4133- MPC	5080 6	-1.	100700 6	100702	6 1.00000					EM508016
4134- EM508016	100701	6 0.70711	100702		0.00000					EM508026
4135- EM508026	100703	6 0.70711								
4136- MPC	5081 1	-1.	100700 1	100702	1.00000					EM508111
4137- EM508111	100701	1 0.38268	100702		0.70711					EM508121
4138- EM508121	100703	1 0.92388								
4139- MPC	5081 2	-1.	100700 2	100702	2 0.70711					EM508112
4140- EM508112	100701	2 0.92388	100702		0.70711					EM508122
4141- EM508122	100703	2 0.38268								
4142- MPC	5081 3	-1.	100700 3	100702	3 0.00000					EM508113
4143- EM508113	100701	3 0.38268	100702		0.70711					EM508123
4144- EM508123	100703	3 0.92388								
4145- MPC	5081 4	-1.	100700 4	100702	4 0.70711					EM508114
4146- EM508114	100701	4 0.92388	100702		0.70711					EM508124
4147- EM508124	100703	4 0.38268								
4148- MPC	5081 5	-1.	100700 5	100702	5 0.00000					EM508115
4149- EM508115	100701	5 0.38268	100702		0.70711					EM508125
4150- EM508125	100703	5 0.70711								

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4151-	CMSC8125	1	100703		5-0.92389					
4152-	MPC	5081	6		-1.	100700	6	.0		CMSC8116
4153-	CMSC8116		100701		6 0.92388	100702		6 0.70711		CMSC8126
4154-	CMSC8126		100703		6-0.38268					
4155-	MPC	5082	1		-1.	100700	1	1.00000		CMSC8211
4156-	CMSC8211		100701		1 0.00000	100702		1-1.00000		CMSC8221
4157-	CMSC8221		100703		1-0.00000					
4158-	MPC	5082	2		-1.	100700	2	.0		CMSC8212
4159-	CMSC8212		100701		2 1.00000	100702		2 0.00000		CMSC8222
4160-	CMSC8222		100703		2-1.00000					
4161-	MPC	5082	3		-1.	100700	3	1.00000		CMSC8213
4162-	CMSC8213		100701		3 0.00000	100702		3-1.00000		CMSC8223
4163-	CMSC8223		100703		3-0.00000					
4164-	MPC	5082	4		-1.	100700	4	.0		CMSC8214
4165-	CMSC8214		100701		4 1.00000	100702		4 0.00000		CMSC8224
4166-	CMSC8224		100703		4-1.00000					
4167-	MPC	5082	5		-1.	100700	5	1.00000		CMSC8215
4168-	CMSC8215		100701		5 0.00000	100702		5-1.00000		CMSC8225
4169-	CMSC8225		100703		5-0.00000					
4170-	MPC	5082	6		-1.	100700	6	.0		CMSC8216
4171-	CMSC8216		100701		6 1.00000	100702		6 0.00000		CMSC8226
4172-	CMSC8226		100703		6-1.00000					
4173-	MPC	5083	1		-1.	100700	1	1.00000		CMSC8311
4174-	CMSC8311		100701		1-0.38268	100702		1-0.70711		CMSC8321
4175-	CMSC8321		100703		1 0.92388					
4176-	MPC	5083	2		-1.	100700	2	.0		CMSC8312
4177-	CMSC8312		100701		2 0.92388	100702		2-0.70711		CMSC8322
4178-	CMSC8322		100703		2-0.38269					
4179-	MPC	5083	3		-1.	100700	3	1.00000		CMSC8313
4180-	CMSC8313		100701		3-0.38269	100702		3-0.70711		CMSC8323
4181-	CMSC8323		100703		3 0.92388					
4182-	MPC	5083	4		-1.	100700	4	.0		CMSC8314
4183-	CMSC8314		100701		4 0.92388	100702		4-0.70711		CMSC8324
4184-	CMSC8324		100703		4-0.38269					
4185-	MPC	5083	5		-1.	100700	5	1.00000		CMSC8315
4186-	CMSC8315		100701		5-0.38268	100702		5-0.70711		CMSC8325
4187-	CMSC8325		100703		5 0.92389					
4188-	MPC	5083	6		-1.	100700	6	.0		CMSC8316
4189-	CMSC8316		100701		6 0.92388	100702		6-0.70711		CMSC8326
4190-	CMSC8326		100703		6-0.38269					
4191-	MPC	5084	1		-1.	100700	1	1.00000		CMSC8411
4192-	CMSC8411		100701		1-0.70711	100702		1-0.00000		CMSC8421
4193-	CMSC8421		100703		1 0.70711					
4194-	MPC	5084	2		-1.	100700	2	.0		CMSC8412
4195-	CMSC8412		100701		2 0.70711	100702		2-1.00000		CMSC8422
4196-	CMSC8422		100703		2 0.70710					
4197-	MPC	5084	3		-1.	100700	3	1.00000		CMSC8413
4198-	CMSC8413		100701		3-0.70711	100702		3-0.00000		CMSC8423
4199-	CMSC8423		100703		3 0.70711					
4200-	MPC	5084	4		-1.	100700	4	.0		CMSC8414

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT										
EM5C8414	100701	4	0.70711	100702						EM508424
EM5C8424	100703	4	0.70710							
MPC	5084	5		100700	5	1.00000				EM508415
EM5C8415	100701	5	0.70711	100702						EM508425
EM5C8425	100703	5	0.70711							
MPC	5084	6		100700	6	.0				EM508416
EM5C8416	100701	6	0.70711	100702						EM508426
EM5C8426	100703	6	0.70710							
MPC	5085	1		100700	1	1.00000				EM508511
EM5C8511	100701	1	0.92388	100702						EM508521
EM5C8521	100703	1	0.38268							
MPC	5085	2		100700	2	.0				EM508512
EM5C8512	100701	2	0.38268	100702						EM508522
EM5C8522	100703	2	0.92388							
MPC	5085	3		100700	3	1.00000				EM508513
EM5C8513	100701	3	0.92388	100702						EM508523
EM5C8523	100703	3	0.38268							
MPC	5085	4		100700	4	.0				EM508514
EM5C8514	100701	4	0.38268	100702						EM508524
EM5C8524	100703	4	0.92388							
MPC	5085	5		100700	5	1.00000				EM508515
EM5C8515	100701	5	0.92388	100702						EM508525
EM5C8525	100703	5	0.38268							
MPC	5085	6		100700	6	.0				EM508516
EM5C8516	100701	6	0.38268	100702						EM508526
EM5C8526	100703	6	0.92388							
MPC	5086	1		100700	1	1.00000				EM508611
EM5C8611	100701	1	1.00000	100702						EM508621
EM5C8621	100703	1	1.00000							
MPC	5086	2		100700	2	.0				EM508612
EM5C8612	100701	2	0.00000	100702						EM508622
EM5C8622	100703	2	0.00000							
MPC	5086	3		100700	3	1.00000				EM508613
EM5C8613	100701	3	1.00000	100702						EM508623
EM5C8623	100703	3	1.00000							
MPC	5086	4		100700	4	.0				EM508614
EM5C8614	100701	4	0.00000	100702						EM508624
EM5C8624	100703	4	0.00000							
MPC	5086	5		100700	5	1.00000				EM508615
EM5C8615	100701	5	1.00000	100702						EM508625
EM5C8625	100703	5	1.00000							
MPC	5086	6		100700	6	.0				EM508616
EM5C8616	100701	6	0.00000	100702						EM508626
EM5C8626	100703	6	0.00000							
MPC	5091	1		100800	1	1.00000				EM509111
EM5C9111	100801	1	1.00000	100802						EM509121
EM5C9121	100803	1	1.00000							
MPC	5091	2		100900	2	.0				EM509112
EM5C9112	100801	2	0.0	100802						EM509122
EM5C9122	100803	2	0.0							

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4251-	MPG	1	5091	3	-1.	100800	3	1.00000		EM509113
4252-	EM5C9113		100801		3	1.00000	100802	3	1.00000	EM509123
4253-	EM5C9123		100803		3	1.00000				
4254-	MPG	1	5091	4	-1.	100800	4	.0		EM509114
4255-	EM5C9114		100801		4	0.0	100802	4	0.0	EM509124
4256-	EM5C9124		100803		4	0.0				
4257-	MPG	1	5091	5	-1.	100800	5	1.00000		EM509115
4258-	EM5C9115		100801		5	1.00000	100802	5	1.00000	EM509125
4259-	EM5C9125		100803		5	1.00000				
4260-	MPG	1	5091	6	-1.	100800	6	.0		EM509116
4261-	EM5C9116		100801		6	0.0	100802	6	0.0	EM509126
4262-	EM5C9126		100803		6	0.0				
4263-	MPG	1	5092	1	-1.	100800	1	1.00000		EM509211
4264-	EM5C9211		100801		1	0.92388	100802	1	0.70711	EM509221
4265-	EM5C9221		100803		1	0.38268				
4266-	MPG	1	5092	2	-1.	100800	2	.0		EM509212
4267-	EM5C9212		100801		2	0.38268	100802	2	0.70711	EM509222
4268-	EM5C9222		100803		2	0.92388				
4269-	MPG	1	5092	3	-1.	100800	3	1.00000		EM509213
4270-	EM5C9213		100801		3	0.92388	100802	3	0.70711	EM509223
4271-	EM5C9223		100803		3	0.38268				
4272-	MPG	1	5092	4	-1.	100800	4	.0		EM509214
4273-	EM5C9214		100801		4	0.38268	100802	4	0.70711	EM509224
4274-	EM5C9224		100803		4	0.92388				
4275-	MPG	1	5092	5	-1.	100800	5	1.00000		EM509215
4276-	EM5C9215		100801		5	0.92388	100802	5	0.70711	EM509225
4277-	EM5C9225		100803		5	0.38268				
4278-	MPG	1	5092	6	-1.	100800	6	.0		EM509216
4279-	EM5C9216		100801		6	0.38268	100802	6	0.70711	EM509226
4280-	EM5C9226		100803		6	0.92388				
4281-	MPG	1	5092	1	-1.	100800	1	1.00000		EM509311
4282-	EM5C9311		100801		1	0.70711	100802	1	0.00000	EM509321
4283-	EM5C9321		100803		1	0.70711				
4284-	MPG	1	5093	2	-1.	100800	2	.0		EM5C9312
4285-	EM5C9312		100801		2	0.70711	100802	2	1.00000	EM509322
4286-	EM5C9322		100803		2	0.70711				
4287-	MPG	1	5093	3	-1.	100800	3	1.00000		EM509313
4288-	EM5C9313		100801		3	0.70711	100802	3	0.00000	EM509323
4289-	EM5C9323		100803		3	0.70711				
4290-	MPG	1	5093	4	-1.	100800	4	.0		EM509314
4291-	EM5C9314		100801		4	0.70711	100802	4	1.00000	EM509324
4292-	EM5C9324		100803		4	0.70711				
4293-	MPG	1	5093	5	-1.	100800	5	1.00000		EM509315
4294-	EM5C9315		100801		5	0.70711	100802	5	0.00000	EM509325
4295-	EM5C9325		100803		5	0.70711				
4296-	MPG	1	5093	6	-1.	100800	6	.0		EM509316
4297-	EM5C9316		100801		6	0.70711	100802	6	1.00000	EM509326
4298-	EM5C9326		100803		6	0.70711				
4299-	MPG	1	5094	1	-1.	100800	1	1.00000		EM509411
4300-	EM5C9411		100801		1	0.38268	100802	1	0.70711	EM509421

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4301-	EMSC9421	1	10903	1-0.92388						
4302-	MPC	5094	2	100800	2					EM509412
4303-	EMSC9412	1	10801	2 0.92388	100802		2 0.70711			EM509422
4304-	EMSC9422	1	10803	2-0.38268						
4305-	MPC	5094	3	100800	3		1.00000			EM509413
4305-	EMSC9413	1	10801	3 0.38268	100802		3-0.70711			EM509423
4307-	EMSC9423	1	10803	3-0.92388						
4308-	MPC	5094	4	100800	4		.0			EM509414
4308-	EMSC9414	1	10901	4 0.92388	100802		4 0.70711			EM509424
4310-	EMSC9424	1	10803	4-0.38268						
4311-	MPC	5094	5	100800	5		1.00000			EM509415
4312-	EMSC9415	1	10801	5 0.38268	100802		5-0.70711			EM509425
4314-	EMSC9425	1	10803	5-0.92388						
4314-	MPC	5094	6	100800	6		.0			EM509416
4315-	EMSC9416	1	10801	6 0.92388	100802		6 0.70711			EM509426
4315-	EMSC9426	1	10803	6-0.38268						
4317-	MPC	5095	1	100800	1		1.00000			EM509511
4317-	EMSC9511	1	10801	1 0.00000	100802		1-1.00000			EM509521
4317-	EMSC9521	1	10803	1-0.00000						
4320-	MPC	5095	2	100800	2		.0			EM509512
4321-	EMSC9512	1	10801	2 1.00000	100802		2 0.00000			EM509522
4322-	EMSC9522	1	10803	2-1.00000						
4323-	MPC	5095	3	100800	3		1.00000			EM509513
4324-	EMSC9513	1	10801	3 0.00000	100802		3-1.00000			EM509523
4325-	EMSC9523	1	10803	3-0.00000						
4326-	MPC	5095	4	100800	4		.0			EM509514
4327-	EMSC9514	1	10801	4 1.00000	100802		4 0.00000			EM509524
4328-	EMSC9524	1	10803	4-1.00000						
4329-	MPC	5095	5	100800	5		1.00000			EM509515
4330-	EMSC9515	1	10801	5 0.00000	100802		5-1.00000			EM509525
4331-	EMSC9525	1	10803	5-0.00000						
4331-	MPC	5095	6	100800	6		.0			EM509516
4332-	EMSC9516	1	10901	6 1.00000	100802		6 0.00000			EM509526
4334-	EMSC9526	1	10803	6-1.00000						
4335-	MPC	5096	1	100800	1		1.00000			EM509611
4335-	EMSC9611	1	10801	1 0.38268	100802		1-0.70711			EM509621
4337-	EMSC9621	1	10803	1 0.92388						
4338-	MPC	5096	2	100800	2		.0			EM509612
4338-	EMSC9612	1	10801	2 0.92388	100802		2-0.70711			EM509622
4340-	EMSC9622	1	10803	2-0.38268						
4341-	MPC	5096	3	100800	3		1.00000			EM509613
4342-	EMSC9613	1	10801	3 0.38268	100802		3-0.70711			EM509623
4343-	EMSC9623	1	10803	3 0.92388						
4344-	MPC	5096	4	100800	4		.0			EM509614
4345-	EMSC9614	1	10801	4 0.92388	100802		4-0.70711			EM509624
4346-	EMSC9624	1	10803	4-0.38268						
4347-	MPC	5096	5	100800	5		1.00000			EM509615
4348-	EMSC9615	1	10801	5 0.38268	100802		5-0.70711			EM509625
4349-	EMSC9625	1	10803	5 0.92388						
4350-	MPC	5096	6	100800	6		.0			EM509616

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CM5C9616	100801	6 0.92388	100802							CM509626
CM5C9626	100803	6-0.38269								CM509626
CM5C9711	5097 1	-1.	100800 1							CM509711
CM5C9721	100801	1-0.70711	100702							CM509721
CM5C9712	100803	1 0.70711								CM509712
CM5C9722	5097 2	-1.	100800 2							CM509722
CM5C9713	100801	2 0.70711	100802							CM509713
CM5C9723	100803	2 0.70710								CM509723
CM5C9714	5097 3	-1.	100800 3							CM509714
CM5C9724	100801	3-0.70711	100802							CM509724
CM5C9715	100803	3 0.70711								CM509715
CM5C9725	5097 4	-1.	100800 4							CM509725
CM5C9716	100801	4 0.70711	100802							CM509716
CM5C9726	100803	4 0.76710								CM509726
CM5C9811	5097 5	-1.	100800 5							CM509811
CM5C9821	100801	5-0.70711	100802							CM509821
CM5C9812	100803	5 0.70711								CM509812
CM5C9822	5097 6	-1.	100800 6							CM509822
CM5C9813	100801	6 0.70711	100802							CM509813
CM5C9823	100803	6 0.70710								CM509823
CM5C9914	5097 1	-1.	100800 1							CM509914
CM5C9924	100801	1-0.92388	100802							CM509924
CM5C9915	100803	1-0.38269								CM509915
CM5C9925	5097 2	-1.	100800 2							CM509925
CM5C9916	100801	2 0.38269	100802							CM509916
CM5C9926	100803	2 0.92388								CM509926
CM5C9917	5097 3	-1.	100800 3							CM509917
CM5C9927	100801	3-0.92388	100802							CM509927
CM5C9918	100803	3-0.38269								CM509918
CM5C9928	5097 4	-1.	100800 4							CM509928
CM5C9919	100801	4 0.38269	100802							CM509919
CM5C9929	100803	4 0.92388								CM509929
CM5C9920	5097 5	-1.	100800 5							CM509920
CM5C9930	100801	5-0.92388	100802							CM509930
CM5C9931	100803	5-0.38269								CM509931
CM5C9932	5097 6	-1.	100800 6							CM509932
CM5C9933	100801	6 0.38269	100802							CM509933
CM5C9934	100803	6 0.92388								CM509934
CM5C9935	5097 1	-1.	100800 1							CM509935
CM5C9936	100801	1-1.00000	100802							CM509936
CM5C9937	100803	1-1.00000								CM509937
CM5C9938	5097 2	-1.	100800 2							CM509938
CM5C9939	100801	2 0.00000	100802							CM509939
CM5C9940	100803	2 0.00000								CM509940
CM5C9941	5097 3	-1.	100800 3							CM509941
CM5C9942	100801	3-1.00000	100802							CM509942
CM5C9943	100803	3-1.00000								CM509943
CM5C9944	5097 4	-1.	100800 4							CM509944
CM5C9945	100801	4 0.00000	100802							CM509945
CM5C9946	100803	4 0.00000								CM509946

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
23UNT										
4401-	MPC	5099	5		-1.	100800	5	1.00000		EMS09915
4402-	EMS09915	1C0901			5-1.00000	100802		5 1.00000		EMS09925
4403-	EMS09925	100803			5-1.00000					
4404-	MPC	5095	6		-1.	100800	6	.0		EMS09916
4405-	EMS09916	1C0901			6 0.00000	100802		6-0.00000		EMS09926
4406-	EMS09926	1C1803			6 0.00000					
4407-	MPC	5104	1		-1.	100900	1	1.00000		EMS10411
4408-	EMS10411	1C0901			1 1.00000	100902		1 1.00000		EMS10421
4409-	EMS10421	1C0903			1 1.00000					
4410-	MPC	5104	2		-1.	100900	2	.0		EMS10412
4411-	EMS10412	1C0901			2 0.0	100902		2 0.0		EMS10422
4412-	EMS10422	1C0903			2 0.0					
4413-	MPC	5104	3		-1.	100900	3	1.00000		EMS10413
4414-	EMS10413	1C0901			3 1.00000	100902		3 1.00000		EMS10423
4415-	EMS10423	1C0903			3 1.00000					
4416-	MPC	5104	4		-1.	100900	4	.0		EMS10414
4417-	EMS10414	1C0901			4 0.0	100902		4 0.0		EMS10424
4418-	EMS10424	1C0503			4 0.0					
4419-	MPC	5104	5		-1.	100900	5	1.00000		EMS10415
4420-	EMS10415	100901			5 1.00000	1C0902		5 1.00000		EMS10425
4421-	EMS10425	1C0903			5 1.00000					
4422-	MPC	5104	6		-1.	100900	6	.0		EMS10416
4423-	EMS10416	1C0901			6 0.0	100902		6 0.0		EMS10426
4424-	EMS10426	1C0903			6 0.0					
4425-	MPC	5105	1		-1.	100900	1	1.00000		EMS10511
4426-	EMS10511	100901			1 0.92388	100902		1 0.70711		EMS10521
4427-	EMS10521	1C0903			1 0.38268					
4428-	MPC	5105	2		-1.	100900	2	.0		EMS10512
4429-	EMS10512	1C0901			2 0.38268	100902		2 0.70711		EMS10522
4430-	EMS10522	1C0903			2 0.92388					
4431-	MPC	5105	3		-1.	100900	3	1.00000		EMS10513
4432-	EMS10513	100901			3 0.92388	1C0902		3 0.70711		EMS10523
4433-	EMS10523	1C0903			3 0.38268					
4434-	MPC	5105	4		-1.	100900	4	.0		EMS10514
4435-	EMS10514	100901			4 0.38268	100902		4 0.70711		EMS10524
4436-	EMS10524	1C0903			4 0.92388					
4437-	MPC	5105	5		-1.	100900	5	1.00000		EMS10515
4438-	EMS10515	1C0901			5 0.92388	100902		5 0.70711		EMS10525
4439-	EMS10525	1C0903			5 0.38268					
4440-	MPC	5105	6		-1.	100900	6	.0		EMS10516
4441-	EMS10516	1C0901			6 0.38268	100902		6 0.70711		EMS10526
4442-	EMS10526	1C0903			6 0.92388					
4443-	MPC	5106	1		-1.	100900	1	1.00000		EMS10611
4444-	EMS10611	100901			1 0.70711	100902		1 0.00000		EMS10621
4445-	EMS10621	1C0903			1-0.70711					
4446-	MPC	5106	2		-1.	100900	2	.0		EMS10612
4447-	EMS10612	1C0901			2 0.70711	100902		2 1.00000		EMS10622
4448-	EMS10622	1C0903			2 0.70711					
4449-	MPC	5106	3		-1.	100900	3	1.00000		EMS10613
4450-	EMS10613	100901			3 0.70711	100902		3 0.00000		EMS10623

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4451-	CM510623	100901	3-0.70711							
4452-	MPC	S106	4	-1.	100900	4	.0			CM510614
4453-	CM510614	100901	4	0.70711	100902		4	1.00000		CM510624
4454-	CM510624	100903		4	0.70711					
4455-	MPC	S106	5	-1.	100900	5	1.00000			CM510615
4456-	CM510615	100901	5	0.70711	100902		5	0.00000		CM510625
4457-	CM510625	100903		5	0.70711					
4458-	MPC	S106	6	-1.	100900	6	.0			CM510616
4459-	CM510616	100901	6	0.70711	100902		6	1.00000		CM510626
4460-	CM510626	100903		6	0.70711					
4461-	MPC	S107	1	-1.	100900	1	1.00000			CM510711
4462-	CM510711	100901	1	0.38268	100902		1	0.70711		CM510721
4463-	CM510721	100903		1	0.92388					
4464-	MPC	S107	2	-1.	100900	2	.0			CM510712
4465-	CM510712	100901	2	0.92388	100902		2	0.70711		CM510722
4466-	CM510722	100903		2	0.38268					
4467-	MPC	S107	3	-1.	100900	3	1.00000			CM510713
4468-	CM510713	100901	3	0.38268	100902		3	0.70711		CM510723
4469-	CM510723	100903		3	0.92388					
4470-	MPC	S107	4	-1.	100900	4	.0			CM510714
4471-	CM510714	100901	4	0.92388	100902		4	0.70711		CM510724
4472-	CM510724	100903		4	0.38268					
4473-	MPC	S107	5	-1.	100900	5	1.00000			CM510715
4474-	CM510715	100901	5	0.38268	100902		5	0.70711		CM510725
4475-	CM510725	100903		5	0.92388					
4476-	MPC	S107	6	-1.	100900	6	.0			CM510716
4477-	CM510716	100901	6	0.92388	100902		6	0.70711		CM510726
4478-	CM510726	100903		6	0.38268					
4479-	MPC	S108	1	-1.	100900	1	1.00000			CM510811
4480-	CM510811	100901	1	0.00000	100902		1	1.00000		CM510821
4481-	CM510821	100903		1	0.00000					
4482-	MPC	S108	2	-1.	100900	2	.0			CM510812
4483-	CM510812	100901	2	1.00000	100902		2	0.00000		CM510822
4484-	CM510822	100903		2	1.00000					
4485-	MPC	S108	3	-1.	100900	3	1.00000			CM510813
4486-	CM510813	100901	3	0.00000	100902		3	1.00000		CM510823
4487-	CM510823	100903		3	0.00000					
4488-	MPC	S108	4	-1.	100900	4	.0			CM510814
4489-	CM510814	100901	4	1.00000	100902		4	0.00000		CM510824
4490-	CM510824	100903		4	1.00000					
4491-	MPC	S108	5	-1.	100900	5	1.00000			CM510815
4492-	CM510815	100901	5	0.00000	100902		5	1.00000		CM510825
4493-	CM510825	100903		5	0.00000					
4494-	MPC	S108	6	-1.	100900	6	.0			CM510816
4495-	CM510816	100901	6	1.00000	100902		6	0.00000		CM510826
4496-	CM510826	100903		6	1.00000					
4497-	MPC	S109	1	-1.	100900	1	1.00000			CM510911
4498-	CM510911	100901	1	0.38268	100902		1	0.70711		CM510921
4499-	CM510921	100903		1	0.92388					
4500-	MPC	S109	2	-1.	100900	2	.0			CM510912

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4501-	CM510912	1	100901	2	0.92388	100902	2	-0.70711		CM510922
4512-	CM510922		100903		2	-0.38269				
4503-	MP3	1	5105	3	-1.	100900	3	1.00000		CM510913
4504-	CM510913		100901		3	-0.38268	100902	3	-0.70711	CM510923
4505-	CM510923		100903		3	0.92388				
4505-	MPC	1	5105	4	-1.	100900	4	.0		CM510914
4507-	CM510914		100901		4	0.92388	100902	4	-0.70711	CM510924
4509-	CM510924		100903		4	-0.38269				
4509-	MPC	1	5105	5	-1.	100900	5	1.00000		CM510915
4510-	CM510915		100901		5	-0.38268	100902	5	-0.70711	CM510925
4511-	CM510925		100903		5	0.92388				
4512-	MPC	1	5105	6	-1.	100900	6	.0		CM510916
4513-	CM510916		100901		6	0.92388	100902	6	-0.70711	CM510926
4514-	CM510926		100903		6	-0.38269				
4515-	MPC	1	5110	1	-1.	100900	1	1.00000		CM511011
4516-	CM511011		100901		1	-0.70711	100902	1	-0.00000	CM511021
4517-	CM511021		100903		1	0.70711				
4518-	MPC	1	5110	2	-1.	100900	2	.0		CM511012
4519-	CM511012		100901		2	0.70711	100902	2	-1.00000	CM511022
4520-	CM511022		100903		2	0.70710				
4521-	MPC	1	5110	3	-1.	100900	3	1.00000		CM511013
4522-	CM511013		100901		3	-0.70711	100902	3	-0.00000	CM511023
4523-	CM511023		100903		3	0.70711				
4524-	MPC	1	5110	4	-1.	100900	4	.0		CM511014
4525-	CM511014		100901		4	0.70711	100902	4	-1.00000	CM511024
4526-	CM511024		100903		4	0.70710				
4527-	MPC	1	5110	5	-1.	100900	5	1.00000		CM511015
4529-	CM511015		100901		5	-0.70711	100902	5	-0.00000	CM511025
4529-	CM511025		100903		5	0.70711				
4530-	MPC	1	5110	6	-1.	100900	6	.0		CM511016
4531-	CM511016		100901		6	0.70711	100902	6	-1.00000	CM511026
4532-	CM511026		100903		6	0.70710				
4533-	MPC	1	5111	1	-1.	100900	1	1.00000		CM511111
4534-	CM511111		100901		1	-0.92388	100902	1	0.70711	CM511121
4535-	CM511121		100903		1	-0.38268				
4535-	MPC	1	5111	2	-1.	100900	2	.0		CM511112
4537-	CM511112		100901		2	0.38268	100902	2	-0.70711	CM511122
4538-	CM511122		100903		2	0.92388				
4539-	MPC	1	5111	3	-1.	100900	3	1.00000		CM511113
4540-	CM511113		100901		3	-0.92388	100902	3	0.70711	CM511123
4541-	CM511123		100903		3	-0.38268				
4542-	MPC	1	5111	4	-1.	100900	4	.0		CM511114
4543-	CM511114		100901		4	0.38268	100902	4	-0.70711	CM511124
4544-	CM511124		100903		4	0.92388				
4545-	MPC	1	5111	5	-1.	100900	5	1.00000		CM511115
4545-	CM511115		100901		5	-0.92388	100902	5	0.70711	CM511125
4547-	CM511125		100903		5	-0.38268				
4549-	MPC	1	5111	6	-1.	100900	6	.0		CM511116
4549-	CM511116		100901		6	0.38268	100902	6	-0.70711	CM511126
4550-	CM511126		100903		6	0.92388				

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4551- JUVT	1	5112	1							
4551- MPC	1	100901	1			100900	1	1.00000		EMS11211
4552- EMS11211		100901				100902		1.00000		EMS11221
4553- EMS11221		100903								
4554- MPC	1	5112	2			100900	2	.0		EMS11212
4555- EMS11212		100901				100902		2-0.00000		EMS11222
4555- EMS11222		100903								
4557- MPC	1	5112	3			100900	3	1.00000		EMS11213
4558- EMS11213		100901				100902		3.1.00000		EMS11223
4557- EMS11223		100903								
4559- MPC	1	5112	4			100900	4	.0		EMS11214
4561- EMS11214		100901				100902		4-0.00000		EMS11224
4562- EMS11224		100903								
4563- MPC	1	5112	5			100900	5	1.00000		EMS11215
4564- EMS11215		100901				100902		5.1.00000		EMS11225
4565- EMS11225		100903								
4565- MPC	1	5112	6			100900	6	.0		EMS11216
4567- EMS11216		100901				100902		6-0.00000		EMS11226
4568- EMS11226		100903								
4569- MPC	1	5117	1			101000	1	1.00000		EMS11711
4570- EMS11711		101001				101002		1.00000		EMS11721
4571- EMS11721		101003								
4572- MPC	1	5117	2			101000	2	1.00000		EMS11712
4573- EMS11712		101001				101002		2.1.00000		EMS11722
4574- EMS11722		101003								
4575- MPC	1	5117	3			101000	3	.0		EMS11713
4575- EMS11713		101001				101002		3.0.0		EMS11723
4577- EMS11723		101003								
4578- MPC	1	5117	4			101000	4	.0		EMS11714
4579- EMS11714		101001				101002		4.0.0		EMS11724
4580- EMS11724		101003								
4581- MPC	1	5117	5			101000	5	.0		EMS11715
4582- EMS11715		101001				101002		5.0.0		EMS11725
4583- EMS11725		101003								
4584- MPC	1	5117	6			101000	6	1.00000		EMS11716
4585- EMS11716		101001				101002		6.1.00000		EMS11726
4586- EMS11726		101003								
4587- MPC	1	5118	1			101000	1	1.00000		EMS11811
4589- EMS11811		101001				101002		1.0.70711		EMS11821
4590- EMS11821		101003								
4591- MPC	1	5118	2			101000	2	1.00000		EMS11812
4591- EMS11812		101001				101002		2.0.70711		EMS11822
4592- EMS11822		101003								
4593- MPC	1	5118	3			101000	3	.0		EMS11813
4594- EMS11813		101001				101002		3.0.70711		EMS11823
4595- EMS11823		101003								
4595- MPC	1	5118	4			101000	4	.0		EMS11814
4597- EMS11814		101001				101002		4.0.70711		EMS11824
4598- EMS11824		101003								
4599- MPC	1	5118	5			101000	5	.0		EMS11815
4600- EMS11815		101001				101002		5.0.70711		EMS11825
4600- EMS11825		101003								

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4601- MPC	EM511825	101003	5	0.92388						EM511816
4602- MPC	EM511816	101001	6	-1.	101000	6	1.00000			EM511826
4603- MPC	EM511826	101003	6	0.38268			6	0.70711		
4604- MPC	EM511911	101001	1	-1.	101000	1	1.00000			EM511911
4605- MPC	EM511921	101003	2	1.0.70711	101002		1	0.00000		EM511921
4606- MPC	EM511912	101001	1	-1.	101000	2	1.00000			EM511912
4607- MPC	EM511922	101003	2	0.70711	101002		2	0.00000		EM511922
4608- MPC	EM511913	101001	3	-1.	101000	3	.0			EM511913
4609- MPC	EM511923	101003	4	0.70711	101002		3	1.00000		EM511923
4610- MPC	EM511914	101001	1	-1.	101000	4	.0			EM511914
4611- MPC	EM511924	101003	4	0.70711	101002		4	1.00000		EM511924
4612- MPC	EM511915	101001	5	-1.	101000	5	.0			EM511915
4613- MPC	EM511925	101003	5	0.70711	101002		5	1.00000		EM511925
4614- MPC	EM511916	101001	6	-1.	101000	6	1.00000			EM511916
4615- MPC	EM511926	101003	6	0.70711	101002		6	0.00000		EM511926
4616- MPC	EM512011	101001	1	-1.	101000	1	1.00000			EM512011
4617- MPC	EM512021	101003	2	0.38268	101002		1	-0.70711		EM512021
4618- MPC	EM512012	101001	2	-1.	101000	2	1.00000			EM512012
4619- MPC	EM512022	101003	3	0.38268	101002		2	-0.70711		EM512022
4620- MPC	EM512013	101001	3	-1.	101000	3	.0			EM512013
4621- MPC	EM512023	101003	4	0.92388	101002		3	0.70711		EM512023
4622- MPC	EM512014	101001	4	-1.	101000	4	.0			EM512014
4623- MPC	EM512024	101003	5	0.38268	101002		4	0.70711		EM512024
4624- MPC	EM512015	101001	5	-1.	101000	5	.0			EM512015
4625- MPC	EM512025	101003	6	0.92388	101002		5	0.70711		EM512025
4626- MPC	EM512016	101001	6	-1.	101000	6	1.00000			EM512016
4627- MPC	EM512026	101003	7	0.38268	101002		6	-0.70711		EM512026
4628- MPC	EM512111	101001	1	-1.	101000	1	1.00000			EM512111
4629- MPC	EM512121	101003	2	0.00000	101002		1	-1.00000		EM512121
4630- MPC	EM512112	101001	2	-1.	101000	2	1.00000			EM512112
4631- MPC	EM512122	101003	3	0.00000	101002		2	-1.00000		EM512122
4632- MPC	EM512113	101001	3	-1.	101000	3	.0			EM512113
4633- MPC	EM512123	101003	4	1.00000	101002		3	0.00000		EM512123
4634- MPC	EM512114	101001	4	-1.	101000	4	.0			EM512114

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
4651-	EM512114	101001	4	1.00000	101002	4	0.00000	4	0.00000	9	EM512124
4652-	EM512124	101003									
4653-	MPC	5121	5	-1.	101000	5	.0	5	0.00000		EM512115
4654-	EM512115	101001									EM512125
4655-	EM512125	101003									
4656-	MPC	5121	6	-1.	101000	6	1.00000	6	1.00000		EM512116
4657-	EM512116	101001									EM512126
4658-	EM512126	101003									
4659-	MPC	5122	1	-1.	101000	1	1.00000	1	1.00000		EM512211
4660-	EM512211	101001									EM512221
4661-	EM512221	101003									
4662-	MPC	5122	2	-1.	101000	2	1.00000	2	1.00000		EM512212
4663-	EM512212	101001									EM512222
4664-	EM512222	101003									
4665-	MPC	5122	3	-1.	101000	3	.0	3	0.00000		EM512213
4666-	EM512213	101001									EM512223
4667-	EM512223	101003									
4668-	MPC	5122	4	-1.	101000	4	.0	4	0.00000		EM512214
4669-	EM512214	101001									EM512224
4670-	EM512224	101003									
4671-	MPC	5122	5	-1.	101000	5	.0	5	0.00000		EM512215
4672-	EM512215	101001									EM512225
4673-	EM512225	101003									
4674-	MPC	5122	6	-1.	101000	6	1.00000	6	1.00000		EM512216
4675-	EM512216	101001									EM512226
4676-	EM512226	101003									
4677-	MPC	5122	1	-1.	101000	1	1.00000	1	1.00000		EM512311
4678-	EM512311	101001									EM512321
4679-	EM512321	101003									
4680-	MPC	5122	2	-1.	101000	2	1.00000	2	1.00000		EM512312
4681-	EM512312	101001									EM512322
4682-	EM512322	101003									
4683-	MPC	5122	3	-1.	101000	3	.0	3	1.00000		EM512313
4684-	EM512313	101001									EM512323
4685-	EM512323	101003									
4686-	MPC	5122	4	-1.	101000	4	.0	4	1.00000		EM512314
4687-	EM512314	101001									EM512324
4688-	EM512324	101003									
4689-	MPC	5122	5	-1.	101000	5	.0	5	1.00000		EM512315
4690-	EM512315	101001									EM512325
4691-	EM512325	101003									
4692-	MPC	5122	6	-1.	101000	6	1.00000	6	1.00000		EM512316
4693-	EM512316	101001									EM512326
4694-	EM512326	101003									
4695-	MPC	5124	1	-1.	101000	1	1.00000	1	1.00000		EM512411
4696-	EM512411	101001									EM512421
4697-	EM512421	101003									
4698-	MPC	5124	2	-1.	101000	2	1.00000	2	1.00000		EM512412
4699-	EM512412	101001									EM512422
4700-	EM512422	101003									

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
4701-	MPG	1	5124	3	-1.	101000	3	.0		EMS12413
4702-	EMS12413		101001		3 0.38268	101002		3-0.70711		EMS12423
4703-	EMS12423		101003		3 0.92388					
4704-	MPG	1	5124	4	-1.	101000	4	.0		EMS12414
4705-	EMS12414		101001		4 0.38268	101002		4-0.70711		EMS12424
4706-	EMS12424		101003		4 0.92388					
4707-	MPG	1	5124	5	-1.	101000	5	.0		EMS12415
4708-	EMS12415		101001		5 0.38268	101002		5-0.70711		EMS12425
4709-	EMS12425		101003		5 0.92388					
4710-	MPG	1	5124	6	-1.	101000	6	1.00000		EMS12416
4711-	EMS12416		101001		6-0.92388	101002		6 0.70711		EMS12426
4712-	EMS12426		101003		6-0.38268					
4713-	MPG	1	5125	1	-1.	101000	1	1.00000		EMS12511
4714-	EMS12511		101001		1-1.00000	101002		1 1.00000		EMS12521
4715-	EMS12521		101003		1-1.00000					
4716-	MPG	1	5125	2	-1.	101000	2	1.00000		EMS12512
4717-	EMS12512		101001		2-1.00000	101002		2 1.00000		EMS12522
4718-	EMS12522		101003		2-1.00000					
4719-	MPG	1	5125	3	-1.	101000	3	.0		EMS12513
4720-	EMS12513		101001		3 0.00000	101002		3-0.00000		EMS12523
4721-	EMS12523		101003		3 0.00000					
4722-	MPG	1	5125	4	-1.	101000	4	.0		EMS12514
4723-	EMS12514		101001		4 0.00000	101002		4-0.00000		EMS12524
4724-	EMS12524		101003		4 0.00000					
4725-	MPG	1	5125	5	-1.	101000	5	.0		EMS12515
4726-	EMS12515		101001		5 0.00000	101002		5-0.00000		EMS12525
4727-	EMS12525		101003		5 0.00000					
4728-	MPG	1	5125	6	-1.	101000	6	1.00000		EMS12516
4729-	EMS12516		101001		6-1.00000	101002		6 1.00000		EMS12526
4730-	EMS12526		101003		6-1.00000					
4731-	MPG	1	5126	1	-1.	101000	1	1.00000		EMS12611
4732-	EMS12611		101001		1 0.19732	101002		1-0.92213		EMS12621
4733-	EMS12621		101003		1-0.56122					
4734-	MPG	1	5126	2	-1.	101000	2	1.00000		EMS12612
4735-	EMS12612		101001		2 0.19732	101002		2-0.92213		EMS12622
4736-	EMS12622		101003		2-0.56122					
4737-	MPG	1	5126	3	-1.	101000	3	.0		EMS12613
4738-	EMS12613		101001		3 0.98034	101002		3 0.38687		EMS12623
4739-	EMS12623		101003		3-0.82767					
4740-	MPG	1	5126	4	-1.	101000	4	.0		EMS12614
4741-	EMS12614		101001		4 0.98034	101002		4 0.38687		EMS12624
4742-	EMS12624		101003		4-0.82767					
4743-	MPG	1	5126	5	-1.	101000	5	.0		EMS12615
4744-	EMS12615		101001		5 0.98034	101002		5 0.38687		EMS12625
4745-	EMS12625		101003		5-0.82767					
4746-	MPG	1	5126	6	-1.	101000	6	1.00000		EMS12616
4747-	EMS12616		101001		6 0.19732	101002		6-0.92213		EMS12626
4748-	EMS12626		101003		6-0.56122					
4749-	MPG	1	5130	1	-1.	101100	1	1.00000		EMS13011
4750-	EMS13011		101101		1 1.00000	101102		1 1.00000		EMS13021

EXTERNAL NK W. FLUID
HARMONIC REDUCTION

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Volume II

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CARD	1	2	3	4	5	6	7	8	9	10
4751-	EMS13021	1	101103	1	1.00000					
4752-	MPC		5130			101100 2	1.00000			EMS13012
4753-	EMS13012		101101					2 1.00000		EMS13022
4754-	EMS13022		101103					2 1.00000		
4755-	MPC		5130			101100 3	.0			EMS13013
4756-	EMS13013		101101			101102	3 0.0			EMS13023
4757-	EMS13023		101103							
4758-	MPC		5130			101100 4	.0			EMS13014
4759-	EMS13014		101101			101102	4 0.0			EMS13024
4760-	EMS13024		101103							
4761-	MPC		5130			101100 5	.0			EMS13015
4762-	EMS13015		101101			101102	5 0.0			EMS13025
4763-	EMS13025		101103							
4764-	MPC		5130			101100 6	1.00000			EMS13016
4765-	EMS13016		101101			101102	6 1.00000			EMS13026
4766-	EMS13026		101103							
4767-	MPC		5131			101100 1	1.00000			EMS13111
4768-	EMS13111		101101			101102	1 0.70711			EMS13121
4769-	EMS13121		101103							
4770-	MPC		5131			101100 2	1.00000			EMS13112
4771-	EMS13112		101101			101102	2 0.92388			EMS13122
4772-	EMS13122		101103							
4773-	MPC		5131			101100 3	.0			EMS13113
4774-	EMS13113		101101			101102	3 0.38268			EMS13123
4775-	EMS13123		101103							
4776-	MPC		5131			101100 4	.0			EMS13114
4777-	EMS13114		101101			101102	4 0.70711			EMS13124
4778-	EMS13124		101103							
4779-	MPC		5131			101100 5	.0			EMS13115
4780-	EMS13115		101101			101102	5 0.70711			EMS13125
4781-	EMS13125		101103							
4782-	MPC		5131			101100 6	1.00000			EMS13116
4783-	EMS13116		101101			101102	6 0.92388			EMS13126
4784-	EMS13126		101103							
4785-	MPC		5132			101100 1	1.00000			EMS13211
4786-	EMS13211		101101			101102	1 0.00000			EMS13221
4787-	EMS13221		101103							
4788-	MPC		5132			101100 2	1.00000			EMS13212
4789-	EMS13212		101101			101102	2 0.00000			EMS13222
4790-	EMS13222		101103							
4791-	MPC		5132			101100 3	.0			EMS13213
4792-	EMS13213		101101			101102	3 1.00000			EMS13223
4793-	EMS13223		101103							
4794-	MPC		5132			101100 4	.0			EMS13214
4795-	EMS13214		101101			101102	4 1.00000			EMS13224
4796-	EMS13224		101103							
4797-	MPC		5132			101100 5	.0			EMS13215
4798-	EMS13215		101101			101102	5 1.00000			EMS13225
4799-	EMS13225		101103							
4800-	MPC		5132			101100 6	1.00000			EMS13216

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CARD	COUNT	1	2	3	4	5	6	7	8	9	10
4301-	EMS13216	101101	6	0.70711	101102	5	0.00000	9	0.00000	10	0.00000
4302-	EMS13226	101103	6	0.70711	101102	5	0.00000	9	0.00000	10	0.00000
4303-	MPC	5132	1	-1.	101100	1	1.00000				EMS13311.
4304-	EMS13311	101101	1	0.38268	101102	1	1.00000				EMS13321
4305-	EMS13321	101103	1	0.92388							
4306-	MPC	5132	2	-1.	101100	2	1.00000				EMS13312
4307-	EMS13312	101101	2	0.38268	101102	2	0.70711				EMS13322
4308-	EMS13322	101103	2	0.92388							
4309-	MPC	5132	3	-1.	101100	3	0.00000				EMS13313
4310-	EMS13313	101101	3	0.92388	101102	3	0.70711				EMS13323
4311-	EMS13323	101103	3	0.38268							
4312-	MPC	5132	4	-1.	101100	4	0.00000				EMS13314
4313-	EMS13314	101101	4	0.92388	101102	4	0.70711				EMS13324
4314-	EMS13324	101103	4	0.38268							
4315-	MPC	5132	5	-1.	101100	5	0.00000				EMS13315
4316-	EMS13315	101101	5	0.92388	101102	5	0.70711				EMS13325
4317-	EMS13325	101103	5	0.38268							
4318-	MPC	5132	6	-1.	101100	6	1.00000				EMS13316
4319-	EMS13316	101101	6	0.38268	101102	6	0.70711				EMS13326
4320-	EMS13326	101103	6	0.92388							
4321-	MPC	5134	1	-1.	101100	1	1.00000				EMS13411
4322-	EMS13411	101101	1	0.00000	101102	1	0.00000				EMS13421
4323-	EMS13421	101103	1	0.00000							
4324-	MPC	5134	2	-1.	101100	2	1.00000				EMS13412
4325-	EMS13412	101101	2	0.00000	101102	2	1.00000				EMS13422
4326-	EMS13422	101103	2	0.00000							
4327-	MPC	5134	3	-1.	101100	3	0.00000				EMS13413
4328-	EMS13413	101101	3	1.00000	101102	3	0.00000				EMS13423
4329-	EMS13423	101103	3	1.00000							
4330-	MPC	5134	4	-1.	101100	4	0.00000				EMS13414
4331-	EMS13414	101101	4	1.00000	101102	4	0.00000				EMS13424
4332-	EMS13424	101103	4	1.00000							
4333-	MPC	5134	5	-1.	101100	5	0.00000				EMS13415
4334-	EMS13415	101101	5	1.00000	101102	5	0.00000				EMS13425
4335-	EMS13425	101103	5	1.00000							
4336-	MPC	5134	6	-1.	101100	6	1.00000				EMS13416
4337-	EMS13416	101101	6	0.00000	101102	6	1.00000				EMS13426
4338-	EMS13426	101103	6	0.00000							
4339-	MPC	5135	1	-1.	101100	1	1.00000				EMS13511
4340-	EMS13511	101101	1	0.38268	101102	1	0.00000				EMS13521
4341-	EMS13521	101103	1	0.92388							
4342-	MPC	5135	2	-1.	101100	2	1.00000				EMS13512
4343-	EMS13512	101101	2	0.38268	101102	2	0.00000				EMS13522
4344-	EMS13522	101103	2	0.92388							
4345-	MPC	5135	3	-1.	101100	3	0.00000				EMS13513
4346-	EMS13513	101101	3	0.92388	101102	3	0.70711				EMS13523
4347-	EMS13523	101103	3	0.38268							
4348-	MPC	5135	4	-1.	101100	4	0.00000				EMS13514
4349-	EMS13514	101101	4	0.92388	101102	4	0.70711				EMS13524
4350-	EMS13524	101103	4	0.38268							

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
33001	1	5136	5	-1.	101100	5	.0	5-0.70711		EMS13515
33002	1	101101	5	5 0.92388	101102					EMS13525
33003	1	101103		5-0.38268						
33004	1	5136	6	-1.	101100	6	1.00000			EMS13516
33005	1	101101		6-0.38268	101102			6-0.70711		EMS13526
33006	1	101103		6 0.92388						
33007	1	5136	1	-1.	101100	1	1.00000			EMS13611
33008	1	101101		1-0.70711	101102			1-0.00000		EMS13621
33009	1	101103		1 0.70711						
33010	1	5136	2	-1.	101100	2	1.00000			EMS13612
33011	1	101101		2-0.70711	101102			2-0.00000		EMS13622
33012	1	101103		2 0.70711						
33013	1	5136	3	-1.	101100	3	.0			EMS13613
33014	1	101101		3 0.70711	101102			3-1.00000		EMS13623
33015	1	101103		3 0.70710						
33016	1	5136	4	-1.	101100	4	.0			EMS13614
33017	1	101101		4 0.70711	101102			4-1.00000		EMS13624
33018	1	101103		4 0.70710						
33019	1	5136	5	-1.	101100	5	.0			EMS13615
33020	1	101101		5 0.70711	101102			5-1.00000		EMS13625
33021	1	101103		5 0.70710						
33022	1	5136	6	-1.	101100	6	1.00000			EMS13616
33023	1	101101		6-0.70711	101102			6-0.00000		EMS13626
33024	1	101103		6 0.70711						
33025	1	5137	1	-1.	101100	1	1.00000			EMS13711
33026	1	101101		1-0.92388	101102			1 0.70711		EMS13721
33027	1	101103		1-0.38268						
33028	1	5137	2	-1.	101100	2	1.00000			EMS13712
33029	1	101101		2-0.92388	101102			2 0.70711		EMS13722
33030	1	101103		2-0.38268						
33031	1	5137	3	-1.	101100	3	.0			EMS13713
33032	1	101101		3 0.38268	101102			3-0.70711		EMS13723
33033	1	101103		3 0.92388						
33034	1	5137	4	-1.	101100	4	.0			EMS13714
33035	1	101101		4 0.38268	101102			4-0.70711		EMS13724
33036	1	101103		4 0.92388						
33037	1	5137	5	-1.	101100	5	.0			EMS13715
33038	1	101101		5 0.38268	101102			5-0.70711		EMS13725
33039	1	101103		5 0.92388						
33040	1	5137	6	-1.	101100	6	1.00000			EMS13716
33041	1	101101		6-0.92388	101102			6 0.70711		EMS13726
33042	1	101103		6-0.38268						
33043	1	5138	1	-1.	101100	1	1.00000			EMS13811
33044	1	101101		1-1.00000	101102			1 1.00000		EMS13821
33045	1	101103		1-1.00000						
33046	1	5138	2	-1.	101100	2	1.00000			EMS13812
33047	1	101101		2-1.00000	101102			2 1.00000		EMS13822
33048	1	101103		2-1.00000						
33049	1	5138	3	-1.	101100	3	.0			EMS13813
33050	1	101101		3 0.00000	101102			3-0.00000		EMS13823
33051	1	101103		3 0.00000						

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
4201-	EMSI3823	1	101103	4	3 0.00000						
4202-	MPC	1	SI38	4	-1.	101100	4	.0			EMSI3814
4203-	EMSI3814	1	101101	4	4 0.00000	101102	4	4-0.00000			EMSI3824
4204-	EMSI3824	1	101103	5	4 0.00000						
4205-	MPC	1	SI38	5	-1.	101100	5	.0			EMSI3815
4206-	EMSI3815	1	101101	5	5 0.00000	101102	5	5-0.00000			EMSI3825
4207-	EMSI3825	1	101103	6	5 0.00000						
4208-	MPC	1	SI38	6	-1.	101100	6	1.00000			EMSI3816
4209-	EMSI3816	1	101101	6	6-1.00000	101102	6	6 1.00000			EMSI3826
4210-	EMSI3826	1	101103	7	6-1.00000						
4211-	MPC	1	SI43	1	-1.	101200	1	1.00000			EMSI4311
4212-	EMSI4311	1	101201	1	1 1.00000	101202	1	1 1.00000			EMSI4321
4213-	EMSI4321	1	101203	2	1 1.00000						
4214-	MPC	1	SI43	2	-1.	101200	2	1.00000			EMSI4312
4215-	EMSI4312	1	101201	2	2 1.00000	101202	2	2 1.00000			EMSI4322
4216-	EMSI4322	1	101203	3	2 1.00000						
4217-	MPC	1	SI43	3	-1.	101200	3	.0			EMSI4313
4218-	EMSI4313	1	101201	3	3 0.0	101202	3	3 0.0			EMSI4323
4219-	EMSI4323	1	101203	4	3 0.0						
4220-	MPC	1	SI43	4	-1.	101200	4	.0			EMSI4314
4221-	EMSI4314	1	101201	4	4 0.0	101202	4	4 0.0			EMSI4324
4222-	EMSI4324	1	101203	5	4 0.0						
4223-	MPC	1	SI43	5	-1.	101200	5	.0			EMSI4315
4224-	EMSI4315	1	101201	5	5 0.0	101202	5	5 0.0			EMSI4325
4225-	EMSI4325	1	101203	6	5 0.0						
4226-	MPC	1	SI43	6	-1.	101200	6	1.00000			EMSI4316
4227-	EMSI4316	1	101201	6	6 1.00000	101202	6	6 1.00000			EMSI4326
4228-	EMSI4326	1	101203	7	6 1.00000						
4229-	MPC	1	SI44	1	-1.	101200	1	1.00000			EMSI4411
4230-	EMSI4411	1	101201	1	1 0.92388	101202	1	1 0.70711			EMSI4421
4231-	EMSI4421	1	101203	2	1 0.92388						
4232-	MPC	1	SI44	2	-1.	101200	2	1.00000			EMSI4412
4233-	EMSI4412	1	101201	2	2 0.92388	101202	2	2 0.70711			EMSI4422
4234-	EMSI4422	1	101203	3	2 0.92388						
4235-	MPC	1	SI44	3	-1.	101200	3	.0			EMSI4413
4236-	EMSI4413	1	101201	3	3 0.92388	101202	3	3 0.70711			EMSI4423
4237-	EMSI4423	1	101203	4	3 0.92388						
4238-	MPC	1	SI44	4	-1.	101200	4	.0			EMSI4414
4239-	EMSI4414	1	101201	4	4 0.92388	101202	4	4 0.70711			EMSI4424
4240-	EMSI4424	1	101203	5	4 0.92388						
4241-	MPC	1	SI44	5	-1.	101200	5	.0			EMSI4415
4242-	EMSI4415	1	101201	5	5 0.92388	101202	5	5 0.70711			EMSI4425
4243-	EMSI4425	1	101203	6	5 0.92388						
4244-	MPC	1	SI44	6	-1.	101200	6	1.00000			EMSI4416
4245-	EMSI4416	1	101201	6	6 0.92388	101202	6	6 0.70711			EMSI4426
4246-	EMSI4426	1	101203	7	6 0.92388						
4247-	MPC	1	SI45	1	-1.	101200	1	1.00000			EMSI4511
4248-	EMSI4511	1	101201	1	1 0.70711	101202	1	1 0.00000			EMSI4521
4249-	EMSI4521	1	101203	2	1-0.70711						
4250-	MPC	1	SI45	2	-1.	101200	2	1.00000			EMSI4512

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

CARD	1	2	3	4	5	6	7	8	9	10
4951-	CM514512	101201	101201	2 0.70711	101202	2 0.00000	2 0.00000	2 0.00000	2 0.00000	CM514522
4952-	CM514522	101203	101203	2-0.70711						
4953-	MPC	5145	5145	-1.	101200	3	.0	3 1.00000	3 1.00000	CM514513
4954-	CM514513	101201	101201	3 0.70711	101202	3 1.00000				CM514523
4955-	CM514523	101203	101203	3 0.70711						
4956-	MPC	5145	5145	-1.	101200	4	.0	4 1.00000	4 1.00000	CM514514
4957-	CM514514	101201	101201	4 0.70711	101202	4 1.00000				CM514524
4958-	CM514524	101203	101203	4 0.70711						
4959-	MPC	5145	5145	-1.	101200	5	.0	5 1.00000	5 1.00000	CM514515
4960-	CM514515	101201	101201	5 0.70711	101202	5 1.00000				CM514525
4961-	CM514525	101203	101203	5 0.70711						
4962-	MPC	5145	5145	-1.	101200	6	1.00000	6 0.00000	6 0.00000	CM514516
4963-	CM514516	101201	101201	6 0.70711	101202	6 0.00000				CM514526
4964-	CM514526	101203	101203	6-0.70711						
4965-	MPC	5146	5146	-1.	101200	1	1.00000	1-0.70711	1-0.70711	CM514611
4966-	CM514611	101201	101201	1 0.38268	101202	1 0.00000				CM514621
4967-	CM514621	101203	101203	1-0.92388						
4968-	MPC	5146	5146	-1.	101200	2	1.00000	2-0.70711	2-0.70711	CM514612
4969-	CM514612	101201	101201	2 0.38268	101202	2 0.00000				CM514622
4970-	CM514622	101203	101203	2-0.92388						
4971-	MPC	5146	5146	-1.	101200	3	.0	3 0.70711	3 0.70711	CM514613
4972-	CM514613	101201	101201	3 0.92388	101202	3 0.70711				CM514623
4973-	CM514623	101203	101203	3-0.38268						
4974-	MPC	5146	5146	-1.	101200	4	.0	4 0.70711	4 0.70711	CM514614
4975-	CM514614	101201	101201	4 0.92388	101202	4 0.70711				CM514624
4976-	CM514624	101203	101203	4-0.38268						
4977-	MPC	5146	5146	-1.	101200	5	.0	5 0.70711	5 0.70711	CM514615
4978-	CM514615	101201	101201	5 0.92388	101202	5 0.70711				CM514625
4979-	CM514625	101203	101203	5-0.38268						
4980-	MPC	5146	5146	-1.	101200	6	1.00000	6-0.70711	6-0.70711	CM514616
4981-	CM514616	101201	101201	6 0.38268	101202	6-0.70711				CM514626
4982-	CM514626	101203	101203	6-0.92388						
4983-	MPC	5147	5147	-1.	101200	1	1.00000	1-1.00000	1-1.00000	CM514711
4984-	CM514711	101201	101201	1 0.00000	101202	1 0.00000				CM514721
4985-	CM514721	101203	101203	1-0.00000						
4986-	MPC	5147	5147	-1.	101200	2	1.00000	2-1.00000	2-1.00000	CM514712
4987-	CM514712	101201	101201	2 0.00000	101202	2 1.00000				CM514722
4988-	CM514722	101203	101203	2-0.00000						
4989-	MPC	5147	5147	-1.	101200	3	.0	3 0.00000	3 0.00000	CM514713
4990-	CM514713	101201	101201	3 1.00000	101202	3 0.00000				CM514723
4991-	CM514723	101203	101203	3-1.00000						
4992-	MPC	5147	5147	-1.	101200	4	.0	4 0.00000	4 0.00000	CM514714
4993-	CM514714	101201	101201	4 1.00000	101202	4 0.00000				CM514724
4994-	CM514724	101203	101203	4-1.00000						
4995-	MPC	5147	5147	-1.	101200	5	.0	5 0.00000	5 0.00000	CM514715
4996-	CM514715	101201	101201	5 1.00000	101202	5 0.00000				CM514725
4997-	CM514725	101203	101203	5-1.00000						
4998-	MPC	5147	5147	-1.	101200	6	1.00000	6-1.00000	6-1.00000	CM514716
4999-	CM514716	101201	101201	6 0.00000	101202	6-1.00000				CM514726
5000-	CM514726	101203	101203	6-0.00000						

ORIGINAL PAGE IS
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EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD	GROUP	1	2	3	4	5	6	7	8	9	10
5001	MPC	1	5148	1	-1.	101200	1	1.00000			EMS14811
5002	EMS14811		101201		1-0.38268	101202		1-0.70711			EMS14821
5003	EMS14821		101203		1 0.92388						
5004	MPC	1	5148	2	-1.	101200	2	1.00000			EMS14812
5005	EMS14812		101201		2-0.38268	101202		2-0.70711			EMS14822
5006	EMS14822		101203		2 0.92388						
5007	MPC	1	5148	3	-1.	101200	3	.0			EMS14813
5008	EMS14813		101201		3 0.92388	101202		3-0.70711			EMS14823
5009	EMS14823		101203		3-0.38268						
5010	MPC	1	5148	4	-1.	101200	4	.0			EMS14814
5011	EMS14814		101201		4 0.92388	101202		4-0.70711			EMS14824
5012	EMS14824		101203		4-0.38268						
5013	MPC	1	5148	5	-1.	101200	5	.0			EMS14815
5014	EMS14815		101201		5 0.92388	101202		5-0.70711			EMS14825
5015	EMS14825		101203		5-0.38268						
5016	MPC	1	5148	6	-1.	101200	6	1.00000			EMS14816
5017	EMS14816		101201		6-0.38268	101202		6-0.70711			EMS14826
5018	EMS14826		101203		6 0.92388						
5019	MPC	1	5148	1	-1.	101200	1	1.00000			EMS14911
5020	EMS14911		101201		1-0.70711	101202		1-0.00000			EMS14921
5021	EMS14921		101203		1 0.70711						
5022	MPC	1	5148	2	-1.	101200	2	1.00000			EMS14912
5023	EMS14912		101201		2-0.70711	101202		2-0.00000			EMS14922
5024	EMS14922		101203		2 0.70711						
5025	MPC	1	5148	3	-1.	101200	3	.0			EMS14913
5026	EMS14913		101201		3 0.70711	101202		3-1.00000			EMS14923
5027	EMS14923		101203		3 0.70710						
5028	MPC	1	5148	4	-1.	101200	4	.0			EMS14914
5029	EMS14914		101201		4 0.70711	101202		4-1.00000			EMS14924
5030	EMS14924		101203		4 0.70710						
5031	MPC	1	5148	5	-1.	101200	5	.0			EMS14915
5032	EMS14915		101201		5 0.70711	101202		5-1.00000			EMS14925
5033	EMS14925		101203		5 0.70710						
5034	MPC	1	5148	6	-1.	101200	6	1.00000			EMS14916
5035	EMS14916		101201		6-0.70711	101202		6-0.00000			EMS14926
5036	EMS14926		101203		6 0.70711						
5037	MPC	1	5150	1	-1.	101200	1	1.00000			EMS15011
5038	EMS15011		101201		1-0.92388	101202		1 0.70711			EMS15021
5039	EMS15021		101203		1-0.38268						
5040	MPC	1	5150	2	-1.	101200	2	1.00000			EMS15012
5041	EMS15012		101201		2-0.92388	101202		2 0.70711			EMS15022
5042	EMS15022		101203		2-0.38268						
5043	MPC	1	5150	3	-1.	101200	3	.0			EMS15013
5044	EMS15013		101201		3 0.38268	101202		3-0.70711			EMS15023
5045	EMS15023		101203		3 0.92388						
5046	MPC	1	5150	4	-1.	101200	4	.0			EMS15014
5047	EMS15014		101201		4 0.38268	101202		4-0.70711			EMS15024
5048	EMS15024		101203		4 0.92388						
5049	MPC	1	5150	5	-1.	101200	5	.0			EMS15015
5050	EMS15015		101201		5 0.38268	101202		5-0.70711			EMS15025
			101203								

SORTED BULK DATA ECHO

CARD COUNT	1 ..	2 ..	3 ..	4 ..	5 ..	6 ..	7 ..	8 ..	9 ..	10 ..
5051-	EM515025	1	101203	5	0.92388					
5052-	MPC	1	5156	6	-1.	101200	6	1.00000		EM515016
5053-	EM515016	1	101201	6	0.92388	101202	6	0.70711		EM515026
5054-	EM515026	1	101203		0.38268					
5055-	MPC	1	5151	1	-1.	101200	1	1.00000		EM515111
5056-	EM515111	1	101201	1	1.00000	101202	1	1.00000		EM515121
5057-	EM515121	1	101203		1.00000					
5058-	MPC	1	5151	2	-1.	101200	2	1.00000		EM515112
5059-	EM515112	1	101201	2	1.00000	101202	2	1.00000		EM515122
5060-	EM515122	1	101203		1.00000					
5061-	MPC	1	5151	3	-1.	101200	3	.0		EM515113
5062-	EM515113	1	101201	3	0.00000	101202	3	0.00000		EM515123
5063-	EM515123	1	101203		0.00000					
5064-	MPC	1	5151	4	-1.	101200	4	.0		EM515114
5065-	EM515114	1	101201	4	0.00000	101202	4	0.00000		EM515124
5066-	EM515124	1	101203		0.00000					
5067-	MPC	1	5151	5	-1.	101200	5	.0		EM515115
5068-	EM515115	1	101201	5	0.00000	101202	5	0.00000		EM515125
5069-	EM515125	1	101203		0.00000					
5070-	MPC	1	5151	6	-1.	101200	6	1.00000		EM515116
5071-	EM515116	1	101201	6	1.00000	101202	6	1.00000		EM515126
5072-	EM515126	1	101203		1.00000					
5073-	MPC	1	5156	1	-1.	101300	1	1.00000		EM515611
5074-	EM515611	1	101301	1	1.00000	101302	1	1.00000		EM515621
5075-	EM515621	1	101303		1.00000					
5076-	MPC	1	5156	2	-1.	101300	2	1.00000		EM515612
5077-	EM515612	1	101301	2	1.00000	101302	2	1.00000		EM515622
5078-	EM515622	1	101303		1.00000					
5079-	MPC	1	5156	3	-1.	101300	3	.0		EM515613
5080-	EM515613	1	101301	3	0.0	101302	3	0.0		EM515623
5081-	EM515623	1	101303		0.0					
5082-	MPC	1	5156	4	-1.	101300	4	.0		EM515614
5083-	EM515614	1	101301	4	0.0	101302	4	0.0		EM515624
5084-	EM515624	1	101303		0.0					
5085-	MPC	1	5156	5	-1.	101300	5	.0		EM515615
5086-	EM515615	1	101301	5	0.0	101302	5	0.0		EM515625
5087-	EM515625	1	101303		0.0					
5088-	MPC	1	5156	6	-1.	101300	6	1.00000		EM515616
5089-	EM515616	1	101301	6	1.00000	101302	6	1.00000		EM515626
5090-	EM515626	1	101303		1.00000					
5091-	MPC	1	5157	1	-1.	101300	1	1.00000		EM515711
5092-	EM515711	1	101301	1	0.92388	101302	1	0.70711		EM515721
5093-	EM515721	1	101303		0.38268					
5094-	MPC	1	5157	2	-1.	101300	2	1.00000		EM515712
5095-	EM515712	1	101301	2	0.92388	101302	2	0.70711		EM515722
5096-	EM515722	1	101303		0.38268					
5097-	MPC	1	5157	3	-1.	101300	3	.0		EM515713
5098-	EM515713	1	101301	3	0.38268	101302	3	0.70711		EM515723
5099-	EM515723	1	101303		0.92388					
5100-	MPC	1	5157	4	-1.	101300	4	.0		EM515714

SORTED BULK DATA ECHO

COUNT	1	2	3	4	5	6	7	8	9	10
5101-	EM515714	101301	101301	4 0.38268	101302	101302	4 0.70711	4 0.70711	9	EM515724
5102-	EM515724	101303	101303	4 0.92388						
5103-	MPC	5157	5	-1.	101300	5				EM515715
5104-	EM515715	101301	101301	5 0.38268	101302	101302	5 0.70711	5 0.70711		EM515725
5105-	EM515726	101303	101303	5 0.92388						
5106-	MPC	5157	6	-1.	101300	6	1.00000	1.00000		EM515716
5107-	EM515716	101301	101301	6 0.92388	101302	101302	6 0.70711	6 0.70711		EM515726
5108-	EM515726	101303	101303	6 0.38268						
5109-	MPC	5158	1	-1.	101300	1	1.00000	1.00000		EM515811
5110-	EM515911	101301	101301	1 0.70711	101302	101302	1 0.00000	1 0.00000		EM515821
5111-	EM515821	101303	101303	1-0.70711						
5112-	MPC	5158	2	-1.	101300	2	1.00000	1.00000		EM515812
5113-	EM515812	101301	101301	2 0.70711	101302	101302	2 0.00000	2 0.00000		EM515822
5114-	EM515822	101303	101303	2-0.70711						
5115-	MPC	5158	3	-1.	101300	3	.0	.0		EM515813
5116-	EM515813	101301	101301	3 0.70711	101302	101302	3 1.00000	3 1.00000		EM515823
5117-	EM515823	101303	101303	3 0.70711						
5118-	MPC	5158	4	-1.	101300	4	.0	.0		EM515914
5119-	EM515914	101301	101301	4 0.70711	101302	101302	4 1.00000	4 1.00000		EM515824
5120-	EM515824	101303	101303	4 0.70711						
5121-	MPC	5158	5	-1.	101300	5	.0	.0		EM515815
5122-	EM515815	101301	101301	5 0.70711	101302	101302	5 1.00000	5 1.00000		EM515825
5123-	EM515825	101303	101303	5 0.70711						
5124-	MPC	5158	6	-1.	101300	6	1.00000	1.00000		EM515816
5125-	EM515816	101301	101301	6 0.70711	101302	101302	6 0.00000	6 0.00000		EM515826
5126-	EM515826	101303	101303	6-0.70711						
5127-	MPC	5159	1	-1.	101300	1	1.00000	1.00000		EM515911
5128-	EM515911	101301	101301	1 0.38268	101302	101302	1-0.70711	1-0.70711		EM515921
5129-	EM515921	101303	101303	1-0.92388						
5130-	MPC	5159	2	-1.	101300	2	1.00000	1.00000		EM515912
5131-	EM515912	101301	101301	2 0.38268	101302	101302	2-0.70711	2-0.70711		EM515922
5132-	EM515922	101303	101303	2-0.92388						
5133-	MPC	5159	3	-1.	101300	3	.0	.0		EM515913
5134-	EM515913	101301	101301	3 0.92388	101302	101302	3 0.70711	3 0.70711		EM515923
5135-	EM515923	101303	101303	3-0.38268						
5136-	MPC	5159	4	-1.	101300	4	.0	.0		EM515914
5137-	EM515914	101301	101301	4 0.92388	101302	101302	4 0.70711	4 0.70711		EM515924
5138-	EM515924	101303	101303	4-0.38268						
5139-	MPC	5159	5	-1.	101300	5	.0	.0		EM515915
5140-	EM515915	101301	101301	5 0.92388	101302	101302	5 0.70711	5 0.70711		EM515925
5141-	EM515925	101303	101303	5-0.38268						
5142-	MPC	5159	6	-1.	101300	6	1.00000	1.00000		EM515916
5143-	EM515916	101301	101301	6 0.38268	101302	101302	6-0.70711	6-0.70711		EM515926
5144-	EM515926	101303	101303	6-0.92388						
5145-	MPC	5160	1	-1.	101300	1	1.00000	1.00000		EM516011
5146-	EM516011	101301	101301	1 0.00000	101302	101302	1-1.00000	1-1.00000		EM516021
5147-	EM516021	101303	101303	1-0.00000						
5148-	MPC	5160	2	-1.	101300	2	1.00000	1.00000		EM516012
5149-	EM516012	101301	101301	2 0.00000	101302	101302	2-1.00000	2-1.00000		EM516022
5150-	EM516022	101303	101303	2-0.00000						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5151-	MPC	1	3	4	5	6	7	8	9	10
5152-	EMS16013	101301	3	1-1.	101300	3	3	0	0	EMS16013
5153-	EMS16023	101303	3	1-1.00000	101302	3	3	0.00000	3	EMS16023
5154-	MPC	4	4	4	101300	4	4	0.00000	4	EMS16014
5155-	EMS16014	101301	4	1-1.00000	101302	4	4	0.00000	4	EMS16024
5156-	EMS16024	101303	4	1-1.00000	101302	4	4	0.00000	4	EMS16015
5157-	MPC	5	5	5	101300	5	5	0.00000	5	EMS16025
5158-	EMS16015	101301	5	1-1.00000	101302	5	5	0.00000	5	EMS16016
5159-	EMS16025	101303	5	1-1.00000	101302	5	5	0.00000	5	EMS16026
5160-	MPC	6	6	6	101300	6	6	1.00000	6	EMS16016
5161-	EMS16016	101301	6	0.00000	101302	6	6	1.00000	6	EMS16026
5162-	EMS16026	101303	6	0.00000	101302	6	6	1.00000	6	EMS16016
5163-	MPC	1	1	1-1.	101300	1	1	1.00000	1	EMS16111
5164-	EMS16111	101301	1	1-0.38268	101302	1	1	1.00000	1	EMS16121
5165-	EMS16121	101303	1	0.92389	101302	1	1	1.00000	1	EMS16112
5166-	MPC	2	2	2-1.	101300	2	2	1.00000	2	EMS16122
5167-	EMS16112	101301	2	0.38268	101302	2	2	1.00000	2	EMS16113
5168-	EMS16122	101303	2	0.92389	101302	2	2	1.00000	2	EMS16123
5169-	MPC	3	3	3-1.	101300	3	3	0.0	3	EMS16114
5170-	EMS16113	101301	3	0.92389	101302	3	3	0.70711	3	EMS16124
5171-	EMS16123	101303	3	0.38269	101302	3	3	0.70711	3	EMS16115
5172-	MPC	4	4	4-1.	101300	4	4	0.0	4	EMS16125
5173-	EMS16114	101301	4	0.92389	101302	4	4	0.70711	4	EMS16116
5174-	EMS16124	101303	4	0.38269	101302	4	4	0.70711	4	EMS16126
5175-	MPC	5	5	5-1.	101300	5	5	0.0	5	EMS16117
5176-	EMS16115	101301	5	0.92389	101302	5	5	0.70711	5	EMS16118
5177-	EMS16125	101303	5	0.38269	101302	5	5	0.70711	5	EMS16119
5178-	MPC	6	6	6-1.	101300	6	6	1.00000	6	EMS16120
5179-	EMS16116	101301	6	0.38268	101302	6	6	0.70711	6	EMS16121
5180-	EMS16126	101303	6	0.92389	101302	6	6	0.70711	6	EMS16122
5181-	MPC	1	1	1-1.	101300	1	1	1.00000	1	EMS16211
5182-	EMS16211	101301	1	1-0.70711	101302	1	1	1.00000	1	EMS16221
5183-	EMS16221	101303	1	0.70711	101302	1	1	1.00000	1	EMS16212
5184-	MPC	2	2	2-1.	101300	2	2	1.00000	2	EMS16222
5185-	EMS16212	101301	2	0.70711	101302	2	2	1.00000	2	EMS16213
5186-	EMS16222	101303	2	0.70711	101302	2	2	1.00000	2	EMS16223
5187-	MPC	3	3	3-1.	101300	3	3	0.0	3	EMS16214
5188-	EMS16213	101301	3	0.70711	101302	3	3	1.00000	3	EMS16224
5189-	EMS16223	101303	3	0.70710	101302	3	3	1.00000	3	EMS16215
5190-	MPC	4	4	4-1.	101300	4	4	1.00000	4	EMS16225
5191-	EMS16214	101301	4	0.70711	101302	4	4	1.00000	4	EMS16216
5192-	EMS16224	101303	4	0.70710	101302	4	4	1.00000	4	EMS16226
5193-	MPC	5	5	5-1.	101300	5	5	0.0	5	EMS16311
5194-	EMS16215	101301	5	0.70711	101302	5	5	1.00000	5	EMS16321
5195-	EMS16225	101303	5	0.70710	101302	5	5	1.00000	5	EMS16216
5196-	MPC	6	6	6-1.	101300	6	6	1.00000	6	EMS16226
5197-	EMS16216	101301	6	0.70711	101302	6	6	1.00000	6	EMS16311
5198-	EMS16226	101303	6	0.70711	101302	6	6	1.00000	6	EMS16321
5199-	MPC	1	1	1-1.	101300	1	1	1.00000	1	EMS16311
5200-	EMS16311	101301	1	0.92389	101302	1	1	0.70711	1	EMS16321

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CARD	1	2	3	4	5	6	7	8	9	10
5201-	EMS16321	101303	101303	1-0.38268						
5202-	MPC	5163	2	101300	2	1.00000				EMS16312
5203-	EMS16312	101301	101301	2-0.92388	101302	2	0.70711			EMS16322
5204-	EMS16322	101303	101303	2-0.38268						
5205-	MPC	5163	3	101300	3	.0				EMS16313
5206-	EMS16313	101301	101301	3 0.38268	101302	3	-0.70711			EMS16323
5207-	EMS16323	101303	101303	3 0.92388						
5208-	MPC	5163	4	101300	4	.0				EMS16314
5209-	EMS16314	101301	101301	4 0.38268	101302	4	-0.70711			EMS16324
5210-	EMS16324	101303	101303	4 0.92388						
5211-	MPC	5163	5	101300	5	.0				EMS16315
5212-	EMS16315	101301	101301	5 0.38268	101302	5	-0.70711			EMS16325
5213-	EMS16325	101303	101303	5 0.92388						
5214-	MPC	5163	6	101300	6	1.00000				EMS16316
5215-	EMS16316	101301	101301	6-0.92388	101302	6	0.70711			EMS16326
5216-	EMS16326	101303	101303	6-0.38268						
5217-	MPC	5164	1	101300	1	1.00000				EMS16411
5218-	EMS16411	101301	101301	1-1.00000	101302	1	1.00000			EMS16421
5219-	EMS16421	101303	101303	1-1.00000						
5220-	MPC	5164	2	101300	2	1.00000				EMS16412
5221-	EMS16412	101301	101301	2-1.00000	101302	2	1.00000			EMS16422
5222-	EMS16422	101303	101303	2-1.00000						
5223-	MPC	5164	3	101300	3	.0				EMS16413
5224-	EMS16413	101301	101301	3 0.00000	101302	3	-0.00000			EMS16423
5225-	EMS16423	101303	101303	3 0.00000						
5226-	MPC	5164	4	101300	4	.0				EMS16414
5227-	EMS16414	101301	101301	4 0.00000	101302	4	-0.00000			EMS16424
5228-	EMS16424	101303	101303	4 0.00000						
5229-	MPC	5164	5	101300	5	.0				EMS16415
5230-	EMS16415	101301	101301	5 0.00000	101302	5	-0.00000			EMS16425
5231-	EMS16425	101303	101303	5 0.00000						
5232-	MPC	5164	6	101300	6	1.00000				EMS16416
5233-	EMS16416	101301	101301	6-1.00000	101302	6	1.00000			EMS16426
5234-	EMS16426	101303	101303	6-1.00000						
5235-	MPC	5165	1	101400	1	1.00000				EMS16911
5236-	EMS16911	101401	101401	1 1.00000	101402	1	1.00000			EMS16921
5237-	EMS16921	101403	101403	1 1.00000						
5238-	MPC	5165	2	101400	2	1.00000				EMS16912
5239-	EMS16912	101401	101401	2 1.00000	101402	2	1.00000			EMS16922
5240-	EMS16922	101403	101403	2 1.00000						
5241-	MPC	5165	3	101400	3	.0				EMS16913
5242-	EMS16913	101401	101401	3 0.0	101402	3	0.0			EMS16923
5243-	EMS16923	101403	101403	3 0.0						
5244-	MPC	5165	4	101400	4	.0				EMS16914
5245-	EMS16914	101401	101401	4 0.0	101402	4	0.0			EMS16924
5246-	EMS16924	101403	101403	4 0.0						
5247-	MPC	5165	5	101400	5	.0				EMS16915
5248-	EMS16915	101401	101401	5 0.0	101402	5	0.0			EMS16925
5249-	EMS16925	101403	101403	5 0.0						
5250-	MPC	5165	6	101400	6	1.00000				EMS16916

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CARD	1	2	3	4	5	6	7	8	9	10
5251-	6	1.00000	101402	6	1.00000	101402	6	1.00000	9	10
5252-	6	1.00000	101402	6	1.00000	101402	6	1.00000	9	10
5253-	1	1.00000	101400	1	1.00000	101400	1	1.00000	9	10
5254-	1	0.92388	101402	1	0.92388	101402	1	0.70711	9	10
5255-	1	0.38268	101403	1	0.38268	101403	1	0.70711	9	10
5256-	1	1.00000	101400	2	1.00000	101400	2	1.00000	9	10
5257-	2	0.92388	101402	2	0.92388	101402	2	0.70711	9	10
5258-	2	0.38268	101403	2	0.38268	101403	2	0.70711	9	10
5259-	3	1.00000	101400	3	1.00000	101400	3	0.70711	9	10
5260-	3	0.38268	101402	3	0.38268	101402	3	0.70711	9	10
5261-	3	0.92388	101403	3	0.92388	101403	3	0.70711	9	10
5262-	4	1.00000	101400	4	1.00000	101400	4	0.70711	9	10
5263-	4	0.38268	101402	4	0.38268	101402	4	0.70711	9	10
5264-	4	0.92388	101403	4	0.92388	101403	4	0.70711	9	10
5265-	5	1.00000	101400	5	1.00000	101400	5	0.70711	9	10
5266-	5	0.38268	101402	5	0.38268	101402	5	0.70711	9	10
5267-	5	0.92388	101403	5	0.92388	101403	5	0.70711	9	10
5268-	6	1.00000	101400	6	1.00000	101400	6	0.70711	9	10
5269-	6	0.38268	101402	6	0.38268	101402	6	0.70711	9	10
5270-	6	0.92388	101403	6	0.92388	101403	6	0.70711	9	10
5271-	1	1.00000	101400	1	1.00000	101400	1	0.00000	9	10
5272-	1	0.70711	101402	1	0.70711	101402	1	0.00000	9	10
5273-	1	0.70711	101403	1	0.70711	101403	1	0.00000	9	10
5274-	2	1.00000	101400	2	1.00000	101400	2	0.00000	9	10
5275-	2	0.70711	101402	2	0.70711	101402	2	0.00000	9	10
5276-	2	0.70711	101403	2	0.70711	101403	2	0.00000	9	10
5277-	3	1.00000	101400	3	1.00000	101400	3	0.00000	9	10
5278-	3	0.70711	101402	3	0.70711	101402	3	0.00000	9	10
5279-	3	0.70711	101403	3	0.70711	101403	3	0.00000	9	10
5280-	4	1.00000	101400	4	1.00000	101400	4	0.00000	9	10
5281-	4	0.70711	101402	4	0.70711	101402	4	0.00000	9	10
5282-	4	0.70711	101403	4	0.70711	101403	4	0.00000	9	10
5283-	5	1.00000	101400	5	1.00000	101400	5	0.00000	9	10
5284-	5	0.70711	101402	5	0.70711	101402	5	0.00000	9	10
5285-	5	0.70711	101403	5	0.70711	101403	5	0.00000	9	10
5286-	6	1.00000	101400	6	1.00000	101400	6	0.00000	9	10
5287-	6	0.70711	101402	6	0.70711	101402	6	0.00000	9	10
5288-	6	0.70711	101403	6	0.70711	101403	6	0.00000	9	10
5289-	1	1.00000	101400	1	1.00000	101400	1	0.00000	9	10
5290-	1	0.38268	101402	1	0.38268	101402	1	0.00000	9	10
5291-	1	0.92388	101403	1	0.92388	101403	1	0.00000	9	10
5292-	2	1.00000	101400	2	1.00000	101400	2	0.00000	9	10
5293-	2	0.38268	101402	2	0.38268	101402	2	0.00000	9	10
5294-	2	0.92388	101403	2	0.92388	101403	2	0.00000	9	10
5295-	3	1.00000	101400	3	1.00000	101400	3	0.00000	9	10
5296-	3	0.38268	101402	3	0.38268	101402	3	0.00000	9	10
5297-	3	0.92388	101403	3	0.92388	101403	3	0.00000	9	10
5298-	4	1.00000	101400	4	1.00000	101400	4	0.00000	9	10
5299-	4	0.38268	101402	4	0.38268	101402	4	0.00000	9	10
5300-	4	0.92388	101403	4	0.92388	101403	4	0.00000	9	10

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CARD COUNT	1	2	3	4	5	6	7	8	9	10
5301-	MPC	1	5172	5	-1.	101400	5	.0		EMS17215
5302-	EMS17215		101401		5 0.92388	101402		5 0.70711		EMS17225
5303-	EMS17225		101403		5-0.38268					
5304-	MPC	1	5172	6	-1.	101400	6	1.00000		EMS17216
5305-	EMS17216		101401		6 0.38268	101402		6-0.70711		EMS17226
5306-	EMS17226		101403		6-0.92398					
5307-	MPC	1	5172	1	-1.	101400	1	1.00000		EMS17311
5308-	EMS17311		101401		1 0.00000	101402		1-1.00000		EMS17321
5309-	EMS17321		101403		1-0.00000					
5310-	MPC	1	5172	2	-1.	101400	2	1.00000		EMS17312
5311-	EMS17312		101401		2 0.00000	101402		2-1.00000		EMS17322
5312-	EMS17322		101403		2-0.00000					
5313-	MPC	1	5172	3	-1.	101400	3	.0		EMS17313
5314-	EMS17313		101401		3 1.00000	101402		3 0.00000		EMS17323
5315-	EMS17323		101403		3-1.00000					
5316-	MPC	1	5172	4	-1.	101400	4	.0		EMS17314
5317-	EMS17314		101401		4 1.00000	101402		4 0.00000		EMS17324
5318-	EMS17324		101403		4-1.00000					
5319-	MPC	1	5172	5	-1.	101400	5	.0		EMS17315
5320-	EMS17315		101401		5 1.00000	101402		5 0.00000		EMS17325
5321-	EMS17325		101403		5-1.00000					
5322-	MPC	1	5172	6	-1.	101400	6	1.00000		EMS17316
5323-	EMS17316		101401		6 0.00000	101402		6-1.00000		EMS17326
5324-	EMS17326		101403		6-0.00000					
5325-	MPC	1	5174	1	-1.	101400	1	1.00000		EMS17411
5326-	EMS17411		101401		1-0.38268	101402		1-0.70711		EMS17421
5327-	EMS17421		101403		1 0.92388					
5328-	MPC	1	5174	2	-1.	101400	2	1.00000		EMS17412
5329-	EMS17412		101401		2-0.38268	101402		2-0.70711		EMS17422
5330-	EMS17422		101403		2 0.92388					
5331-	MPC	1	5174	3	-1.	101400	3	.0		EMS17413
5332-	EMS17413		101401		3 0.92388	101402		3-0.70711		EMS17423
5333-	EMS17423		101403		3-0.18269					
5334-	MPC	1	5174	4	-1.	101400	4	.0		EMS17414
5335-	EMS17414		101401		4 0.92398	101402		4-0.70711		EMS17424
5336-	EMS17424		101403		4-0.38269					
5337-	MPC	1	5174	5	-1.	101400	5	.0		EMS17415
5338-	EMS17415		101401		5 0.92388	101402		5-0.70711		EMS17425
5339-	EMS17425		101403		5-0.38269					
5340-	MPC	1	5174	6	-1.	101400	6	1.00000		EMS17416
5341-	EMS17416		101401		6-0.38268	101402		6-0.70711		EMS17426
5342-	EMS17426		101403		6 0.92388					
5343-	MPC	1	5175	1	-1.	101400	1	1.00000		EMS17511
5344-	EMS17511		101401		1-0.70711	101402		1-0.00000		EMS17521
5345-	EMS17521		101403		1 0.70711					
5346-	MPC	1	5175	2	-1.	101400	2	1.00000		EMS17512
5347-	EMS17512		101401		2-0.70711	101402		2-0.00000		EMS17522
5348-	EMS17522		101403		2 0.70711					
5349-	MPC	1	5175	3	-1.	101400	3	.0		EMS17513
5350-	EMS17513		101401		3 0.70711	101402		3-1.00000		EMS17523

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
EXTREME TANK W. FLUID										
HARMONIC REDUCTION										
3301	1	2	3	4	5	6	7	8	9	10
3302	1	2	3	4	5	6	7	8	9	10
3303	1	2	3	4	5	6	7	8	9	10
3304	1	2	3	4	5	6	7	8	9	10
3305	1	2	3	4	5	6	7	8	9	10
3306	1	2	3	4	5	6	7	8	9	10
3307	1	2	3	4	5	6	7	8	9	10
3308	1	2	3	4	5	6	7	8	9	10
3309	1	2	3	4	5	6	7	8	9	10
3310	1	2	3	4	5	6	7	8	9	10
3311	1	2	3	4	5	6	7	8	9	10
3312	1	2	3	4	5	6	7	8	9	10
3313	1	2	3	4	5	6	7	8	9	10
3314	1	2	3	4	5	6	7	8	9	10
3315	1	2	3	4	5	6	7	8	9	10
3316	1	2	3	4	5	6	7	8	9	10
3317	1	2	3	4	5	6	7	8	9	10
3318	1	2	3	4	5	6	7	8	9	10
3319	1	2	3	4	5	6	7	8	9	10
3320	1	2	3	4	5	6	7	8	9	10
3321	1	2	3	4	5	6	7	8	9	10
3322	1	2	3	4	5	6	7	8	9	10
3323	1	2	3	4	5	6	7	8	9	10
3324	1	2	3	4	5	6	7	8	9	10
3325	1	2	3	4	5	6	7	8	9	10
3326	1	2	3	4	5	6	7	8	9	10
3327	1	2	3	4	5	6	7	8	9	10
3328	1	2	3	4	5	6	7	8	9	10
3329	1	2	3	4	5	6	7	8	9	10
3330	1	2	3	4	5	6	7	8	9	10
3331	1	2	3	4	5	6	7	8	9	10
3332	1	2	3	4	5	6	7	8	9	10
3333	1	2	3	4	5	6	7	8	9	10
3334	1	2	3	4	5	6	7	8	9	10
3335	1	2	3	4	5	6	7	8	9	10
3336	1	2	3	4	5	6	7	8	9	10
3337	1	2	3	4	5	6	7	8	9	10
3338	1	2	3	4	5	6	7	8	9	10
3339	1	2	3	4	5	6	7	8	9	10
3340	1	2	3	4	5	6	7	8	9	10
3341	1	2	3	4	5	6	7	8	9	10
3342	1	2	3	4	5	6	7	8	9	10
3343	1	2	3	4	5	6	7	8	9	10
3344	1	2	3	4	5	6	7	8	9	10
3345	1	2	3	4	5	6	7	8	9	10
3346	1	2	3	4	5	6	7	8	9	10
3347	1	2	3	4	5	6	7	8	9	10
3348	1	2	3	4	5	6	7	8	9	10
3349	1	2	3	4	5	6	7	8	9	10
3350	1	2	3	4	5	6	7	8	9	10

SORTED BULK DATA ECHD

CARD	1	2	3	4	5	6	7	8	9	10
5401-	CMS18212	101501	2	1.00000	101502	2	1.00000	9	10	CMS18222
5402-	CMS18222	101503	2	1.00000	101502	2	1.00000			CMS18223
5403-	MPC	5182	3	-1.	101500	3	.0			CMS18213
5404-	CMS18213	101501	3	0.0	101502	3	0.0			CMS18214
5405-	CMS18223	101501	3	0.0	101500	4	.0			CMS18224
5406-	MPC	5182	4	-1.	101502	4	0.0			CMS18215
5407-	CMS18214	101501	4	0.0	101502	4	0.0			CMS18225
5408-	CMS18224	101503	4	0.0	101500	5	.0			CMS18216
5409-	MPC	5182	5	-1.	101502	5	0.0			CMS18226
5410-	CMS18215	101501	5	0.0	101500	6	1.00000			CMS18311
5411-	CMS18225	101501	5	0.0	101502	6	1.00000			CMS18321
5412-	MPC	5182	6	-1.	101500	6	1.00000			CMS18312
5413-	CMS18216	101501	6	1.00000	101502	6	1.00000			CMS18322
5414-	CMS18226	101503	6	1.00000	101500	3	.0			CMS18313
5415-	MPC	5182	1	-1.	101500	1	1.00000			CMS18323
5416-	CMS18311	101501	1	0.92388	101502	1	0.70711			CMS18314
5417-	CMS18321	101503	1	0.38268	101500	4	0.70711			CMS18324
5418-	MPC	5182	2	-1.	101500	2	1.00000			CMS18315
5419-	CMS18312	101501	2	0.92388	101502	2	0.70711			CMS18325
5420-	CMS18322	101503	2	0.38268	101500	3	.0			CMS18316
5421-	MPC	5182	3	-1.	101500	3	0.70711			CMS18326
5422-	CMS18313	101501	3	0.38268	101502	3	0.70711			CMS18317
5423-	CMS18323	101503	3	0.92388	101500	4	0.70711			CMS18327
5424-	MPC	5182	4	-1.	101500	4	1.00000			CMS18318
5425-	CMS18314	101501	4	0.38268	101502	4	0.70711			CMS18328
5426-	CMS18324	101503	4	0.92388	101500	5	.0			CMS18319
5427-	MPC	5182	5	-1.	101500	5	0.70711			CMS18329
5428-	CMS18315	101501	5	0.38268	101502	5	0.70711			CMS18320
5429-	CMS18325	101503	5	0.92388	101500	6	1.00000			CMS18330
5430-	MPC	5182	6	-1.	101500	6	0.70711			CMS18331
5431-	CMS18316	101501	6	0.92388	101502	6	0.70711			CMS18332
5432-	CMS18326	101503	6	0.38268	101500	7	1.00000			CMS18333
5433-	MPC	5182	1	-1.	101500	1	1.00000			CMS18334
5434-	CMS18311	101501	1	0.70711	101502	1	0.00000			CMS18335
5435-	CMS18321	101503	1	-0.70711	101500	2	0.00000			CMS18336
5436-	MPC	5182	2	-1.	101500	2	1.00000			CMS18337
5437-	CMS18312	101501	2	0.70711	101502	2	0.00000			CMS18338
5438-	CMS18322	101503	2	-0.70711	101500	3	1.00000			CMS18339
5439-	MPC	5182	3	-1.	101500	3	0.00000			CMS18340
5440-	CMS18313	101501	3	0.70711	101502	3	1.00000			CMS18341
5441-	CMS18323	101503	3	0.70711	101500	4	1.00000			CMS18342
5442-	MPC	5182	4	-1.	101500	4	0.00000			CMS18343
5443-	CMS18314	101501	4	0.70711	101502	4	1.00000			CMS18344
5444-	CMS18324	101503	4	0.70711	101500	5	0.00000			CMS18345
5445-	MPC	5182	5	-1.	101500	5	1.00000			CMS18346
5446-	CMS18315	101501	5	0.70711	101502	5	1.00000			CMS18347
5447-	CMS18325	101503	5	0.70711	101500	6	0.00000			CMS18348
5448-	MPC	5182	6	-1.	101500	6	1.00000			CMS18349
5449-	CMS18316	101501	6	0.70711	101502	6	0.00000			CMS18350
5450-	CMS18326	101503	6	-0.70711	101500	7	1.00000			

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
5451-	MPC	1	5185	1	-1.	101500	1	1.00000		64518511
5452-	64518511		101501		1 0.38268	101502		1-0.70711		64518521
5453-	64518521		101503		1-0.92388					
5454-	MPC	1	5185	2	-1.	101500	2	1.00000		64518512
5455-	64518512		101501		2 0.38268	101502		2-0.70711		64518522
5456-	64518522		101503		2-0.92388					
5457-	MPC	1	5185	3	-1.	101500	3	.0		64518513
5458-	64518513		101501		3 0.92388	101502		3 0.70711		64518523
5459-	64518523		101503		3-0.38268					
5460-	MPC	1	5185	4	-1.	101500	4	.0		64518514
5461-	64518514		101501		4 0.92388	101502		4 0.70711		64518524
5462-	64518524		101503		4-0.38268					
5463-	MPC	1	5185	5	-1.	101500	5	.0		64518515
5464-	64518515		101501		5 0.92388	101502		5 0.70711		64518525
5465-	64518525		101503		5-0.38268					
5466-	MPC	1	5185	6	-1.	101500	6	1.00000		64518516
5467-	64518516		101501		6 0.38268	101502		6-0.70711		64518526
5468-	64518526		101503		6-0.92388					
5469-	MPC	1	5185	1	-1.	101500	1	1.00000		64518611
5470-	64518611		101501		1 0.00000	101502		1-1.00000		64518621
5471-	64518621		101503		1-0.00000					
5472-	MPC	1	5185	2	-1.	101500	2	1.00000		64518612
5473-	64518612		101501		2 0.00000	101502		2-1.00000		64518622
5474-	64518622		101503		2-0.00000					
5475-	MPC	1	5185	3	-1.	101500	3	.0		64518613
5476-	64518613		101501		3 1.00000	101502		3 0.00000		64518623
5477-	64518623		101503		3-1.00000					
5478-	MPC	1	5185	4	-1.	101500	4	.0		64518614
5479-	64518614		101501		4 1.00000	101502		4 0.00000		64518624
5480-	64518624		101503		4-1.00000					
5481-	MPC	1	5185	5	-1.	101500	5	.0		64518615
5482-	64518615		101501		5 1.00000	101502		5 0.00000		64518625
5483-	64518625		101503		5-1.00000					
5484-	MPC	1	5185	6	-1.	101500	6	1.00000		64518616
5485-	64518616		101501		6 0.00000	101502		6-1.00000		64518626
5486-	64518626		101503		6-0.00000					
5487-	MPC	1	5187	1	-1.	101500	1	1.00000		64518711
5488-	64518711		101501		1-0.38268	101502		1-0.70711		64518721
5489-	64518721		101503		1 0.52388					
5490-	MPC	1	5187	2	-1.	101500	2	1.00000		64518712
5491-	64518712		101501		2-0.38268	101502		2-0.70711		64518722
5492-	64518722		101503		2 0.92388					
5493-	MPC	1	5187	3	-1.	101500	3	.0		64518713
5494-	64518713		101501		3 0.92388	101502		3-0.70711		64518723
5495-	64518723		101503		3-0.38268					
5496-	MPC	1	5187	4	-1.	101500	4	.0		64518714
5497-	64518714		101501		4 0.92388	101502		4-0.70711		64518724
5498-	64518724		101503		4-0.38268					
5499-	MPC	1	5187	5	-1.	101500	5	.0		64518715
5500-	64518715		101501		5 0.92388	101502		5-0.70711		64518725

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5501- CMS18725	1	101503	5-0.38269							
5502- MPC	1	5187	-1.	101500	6	1.00000				CMS18716
5503- CMS18716	1	101501	6-0.38268	101502		6-C.70711				CMS18726
5504- CMS18726	1	101503	6 0.92388							
5505- MPC	1	5188	-1.	101500	1	1.00000				CMS18811
5506- CMS18811	1	101501	1-0.70711	101502		1-0.00000				CMS18821
5507- CMS18821	1	101503	1 0.70711							
5508- MPC	1	5188	-1.	101500	2	1.00000				CMS18812
5509- CMS18812	1	101501	2-0.70711	101502		2-0.00000				CMS18822
5510- CMS18822	1	101503	2 0.70711							
5511- MPC	1	5188	-1.	101500	3	.0				CMS18813
5512- CMS18813	1	101501	3 0.70711	101502		3-1.00000				CMS18823
5513- CMS18823	1	101503	3 0.70710							
5514- MPC	1	5188	-1.	101500	4	.0				CMS18814
5515- CMS18814	1	101501	4 0.70711	101502		4-1.00000				CMS18824
5516- CMS18824	1	101503	4 0.70710							
5517- MPC	1	5188	-1.	101500	5	.0				CMS18815
5518- CMS18815	1	101501	5 0.70711	101502		5-1.00000				CMS18825
5519- CMS18825	1	101503	5 0.70710							
5520- MPC	1	5188	-1.	101500	6	1.00000				CMS18816
5521- CMS18816	1	101501	6-0.70711	101502		6-0.00000				CMS18826
5522- CMS18826	1	101503	6 0.70711							
5523- MPC	1	5189	-1.	101500	1	1.00000				CMS18911
5524- CMS18911	1	101501	1-0.92388	101502		1 0.70711				CMS18921
5525- CMS18921	1	101503	1-0.38268							
5526- MPC	1	5189	-1.	101500	2	1.00000				CMS18912
5527- CMS18912	1	101501	2-0.92388	101502		2 0.70711				CMS18922
5528- CMS18922	1	101503	2-0.38268							
5529- MPC	1	5189	-1.	101500	3	.0				CMS18913
5530- CMS18913	1	101501	3 0.38268	101502		3-0.70711				CMS18923
5531- CMS18923	1	101503	3 0.92388							
5532- MPC	1	5189	-1.	101500	4	.0				CMS18914
5533- CMS18914	1	101501	4 0.38268	101502		4-0.70711				CMS18924
5534- CMS18924	1	101503	4 0.92388							
5535- MPC	1	5189	-1.	101500	5	.0				CMS18915
5536- CMS18915	1	101501	5 0.38268	101502		5-0.70711				CMS18925
5537- CMS18925	1	101503	5 0.92388							
5538- MPC	1	5189	-1.	101500	6	1.00000				CMS18916
5539- CMS18916	1	101501	6-0.92388	101502		6 0.70711				CMS18926
5540- CMS18926	1	101503	6-0.38268							
5541- MPC	1	5190	-1.	101500	1	1.00000				CMS19011
5542- CMS19011	1	101501	1-1.00000	101502		1 1.00000				CMS19021
5543- CMS19021	1	101503	1-1.00000							
5544- MPC	1	5190	-1.	101500	2	1.00000				CMS19012
5545- CMS19012	1	101501	2-1.00000	101502		2 1.00000				CMS19022
5546- CMS19022	1	101503	2-1.00000							
5547- MPC	1	5190	-1.	101500	3	.0				CMS19013
5548- CMS19013	1	101501	3 0.00000	101502		3-0.00000				CMS19023
5549- CMS19023	1	101503	3 0.00000							
5550- MPC	1	5190	-1.	101500	4	.0				CMS19014

SORTED BULK DATA ECHO

CARD COUNT	1 ..	2 ..	3 ..	4 ..	5 ..	6 ..	7 ..	8 ..	9 ..	10 ..
EMS19014	1	4	0.00000	101502	4	0.00000	101502	4	0.00000	EMS19024
EMS19024	1	4	0.00000	101502	4	0.00000	101502	4	0.00000	EMS19015
EMS19015	1	5	0.00000	101502	5	0.00000	101502	5	0.00000	EMS19025
EMS19025	1	5	0.00000	101502	5	0.00000	101502	5	0.00000	EMS19016
EMS19016	1	6	0.00000	101502	6	0.00000	101502	6	0.00000	EMS19026
EMS19026	1	6	0.00000	101502	6	0.00000	101502	6	0.00000	EMS19511
EMS19511	1	1	0.00000	101600	1	0.00000	101600	1	0.00000	EMS19521
EMS19521	1	1	0.00000	101600	1	0.00000	101600	1	0.00000	EMS19512
EMS19512	1	2	0.00000	101600	2	0.00000	101600	2	0.00000	EMS19522
EMS19522	1	2	0.00000	101600	2	0.00000	101600	2	0.00000	EMS19513
EMS19513	1	3	0.00000	101600	3	0.00000	101600	3	0.00000	EMS19523
EMS19523	1	3	0.00000	101600	3	0.00000	101600	3	0.00000	EMS19514
EMS19514	1	4	0.00000	101600	4	0.00000	101600	4	0.00000	EMS19524
EMS19524	1	4	0.00000	101600	4	0.00000	101600	4	0.00000	EMS19515
EMS19515	1	5	0.00000	101600	5	0.00000	101600	5	0.00000	EMS19525
EMS19525	1	5	0.00000	101600	5	0.00000	101600	5	0.00000	EMS19516
EMS19516	1	6	0.00000	101600	6	0.00000	101600	6	0.00000	EMS19526
EMS19526	1	6	0.00000	101600	6	0.00000	101600	6	0.00000	EMS19611
EMS19611	1	1	0.92388	101602	1	0.92388	101602	1	0.70711	EMS19621
EMS19621	1	1	0.38268	101602	1	0.38268	101602	1	0.70711	EMS19612
EMS19612	1	2	0.92388	101602	2	0.92388	101602	2	0.70711	EMS19622
EMS19622	1	2	0.38268	101602	2	0.38268	101602	2	0.70711	EMS19613
EMS19613	1	3	0.38268	101602	3	0.38268	101602	3	0.70711	EMS19623
EMS19623	1	3	0.92388	101602	3	0.92388	101602	3	0.70711	EMS19614
EMS19614	1	4	0.38268	101602	4	0.38268	101602	4	0.70711	EMS19624
EMS19624	1	4	0.92388	101602	4	0.92388	101602	4	0.70711	EMS19615
EMS19615	1	5	0.38268	101602	5	0.38268	101602	5	0.70711	EMS19625
EMS19625	1	5	0.92388	101602	5	0.92388	101602	5	0.70711	EMS19616
EMS19616	1	6	0.92388	101602	6	0.92388	101602	6	0.70711	EMS19626
EMS19626	1	6	0.38268	101602	6	0.38268	101602	6	0.70711	EMS19711
EMS19711	1	1	0.70711	101602	1	0.70711	101602	1	0.00000	EMS19721
EMS19721	1	1	0.70711	101602	1	0.70711	101602	1	0.00000	EMS19712
EMS19712	1	2	0.70711	101602	2	0.70711	101602	2	0.00000	EMS19722
EMS19722	1	2	0.70711	101602	2	0.70711	101602	2	0.00000	

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5631-	MPC	5197	3							
5632-	EMS19713	101601	3							
5633-	EMS19723	101603	3	0.70711	101602	3	1.00000			EMS19713 EMS19723
5634-	MPC	5157	4							
5635-	EMS19714	101601	4	0.70711	101602	4	1.00000			EMS19714 EMS19724
5636-	EMS19724	101603	4	0.70711	101602	4	1.00000			
5637-	MPC	5197	5							
5638-	EMS19715	101601	5	0.70711	101602	5	1.00000			EMS19715 EMS19725
5639-	EMS19725	101603	5	0.70711	101602	5	1.00000			
5640-	MPC	5157	6							
5641-	EMS19716	101601	6	0.70711	101602	6	1.00000			EMS19716 EMS19726
5642-	EMS19726	101603	6	0.70711	101602	6	1.00000			
5643-	MPC	5198	1							
5644-	EMS19811	101601	1	0.38268	101602	1	1.00000			EMS19811 EMS19821
5645-	EMS19821	101603	1	0.38268	101602	1	1.00000			
5646-	MPC	5158	2							
5647-	EMS19812	101601	2	0.38268	101602	2	1.00000			EMS19812 EMS19822
5648-	EMS19822	101603	2	0.38268	101602	2	1.00000			
5649-	MPC	5158	3							
5650-	EMS19813	101601	3	0.92388	101602	3	0.70711			EMS19813 EMS19823
5651-	EMS19823	101603	3	0.92388	101602	3	0.70711			
5652-	MPC	5158	4							
5653-	EMS19814	101601	4	0.92388	101602	4	0.70711			EMS19814 EMS19824
5654-	EMS19824	101603	4	0.92388	101602	4	0.70711			
5655-	MPC	5198	5							
5656-	EMS19815	101601	5	0.92388	101602	5	0.70711			EMS19815 EMS19825
5657-	EMS19825	101603	5	0.92388	101602	5	0.70711			
5658-	MPC	5158	6							
5659-	EMS19816	101601	6	0.38268	101602	6	0.70711			EMS19816 EMS19826
5660-	EMS19826	101603	6	0.38268	101602	6	0.70711			
5661-	MPC	5199	1							
5662-	EMS19911	101601	1	0.00000	101602	1	1.00000			EMS19911 EMS19921
5663-	EMS19921	101603	1	0.00000	101602	1	1.00000			
5664-	MPC	5199	2							
5665-	EMS19912	101601	2	0.00000	101602	2	1.00000			EMS19912 EMS19922
5666-	EMS19922	101603	2	0.00000	101602	2	1.00000			
5667-	MPC	5199	3							
5668-	EMS19913	101601	3	1.00000	101602	3	0.00000			EMS19913 EMS19923
5669-	EMS19923	101603	3	1.00000	101602	3	0.00000			
5670-	MPC	5199	4							
5671-	EMS19914	101601	4	1.00000	101602	4	0.00000			EMS19914 EMS19924
5672-	EMS19924	101603	4	1.00000	101602	4	0.00000			
5673-	MPC	5199	5							
5674-	EMS19915	101601	5	1.00000	101602	5	0.00000			EMS19915 EMS19925
5675-	EMS19925	101603	5	1.00000	101602	5	0.00000			
5676-	MPC	5199	6							
5677-	EMS19916	101601	6	0.00000	101602	6	1.00000			EMS19916 EMS19926
5678-	EMS19926	101603	6	0.00000	101602	6	1.00000			
5679-	MPC	5200	1							
5680-	EMS20011	101601	1	0.38268	101602	1	1.00000			EMS20011 EMS20021

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SORTED BULK DATA ECHO

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

CARD	1	2	3	4	5	6	7	8	9	10
CM520021	1	5200	101603	1	0.92388					
MPC				-1.		101600	2	1.00000		CM520012
CM520012	1	5200	101601	2	0.38268	101602		2-0.70711		CM520022
CM520022	1	5200	101603	2	0.92388					
MPC				-1.		101600	3	.0		CM520013
CM520013	1	5200	101601	3	0.92388	101602		3-0.70711		CM520023
CM520023	1	5200	101603	3	0.38268					
MPC				-1.		101600	4	.0		CM520014
CM520014	1	5200	101601	4	0.92388	101602		4-0.70711		CM520024
CM520024	1	5200	101603	4	0.38268					
MPC				-1.		101600	5	.0		CM520015
CM520015	1	5200	101601	5	0.92388	101602		5-0.70711		CM520025
CM520025	1	5200	101603	5	0.38268					
MPC				-1.		101600	6	1.00000		CM520016
CM520016	1	5200	101601	6	0.92388	101602		6-0.70711		CM520026
CM520026	1	5200	101603	6	0.38268					
MPC				-1.		101600	1	1.00000		CM520111
CM520111	1	5201	101601	1	0.70711	101602		1-0.60000		CM520121
CM520121	1	5201	101603	1	0.70711					
MPC				-1.		101600	2	1.00000		CM520112
CM520112	1	5201	101601	2	0.70711	101602		2-0.00000		CM520122
CM520122	1	5201	101603	2	0.70711					
MPC				-1.		101600	3	.0		CM520113
CM520113	1	5201	101601	3	0.70711	101602		3-1.00000		CM520123
CM520123	1	5201	101603	3	0.70710					
MPC				-1.		101600	4	.0		CM520114
CM520114	1	5201	101601	4	0.70711	101602		4-1.00000		CM520124
CM520124	1	5201	101603	4	0.70710					
MPC				-1.		101600	5	.0		CM520115
CM520115	1	5201	101601	5	0.70711	101602		5-1.00000		CM520125
CM520125	1	5201	101603	5	0.70710					
MPC				-1.		101600	6	1.00000		CM520116
CM520116	1	5201	101601	6	0.70711	101602		6-0.00000		CM520126
CM520126	1	5201	101603	6	0.70711					
MPC				-1.		101600	1	1.00000		CM520211
CM520211	1	5202	101601	1	0.92388	101602		1 0.70711		CM520221
CM520221	1	5202	101603	1	0.38268					
MPC				-1.		101600	2	1.00000		CM520212
CM520212	1	5202	101601	2	0.92388	101602		2 0.70711		CM520222
CM520222	1	5202	101603	2	0.38268					
MPC				-1.		101600	3	.0		CM520213
CM520213	1	5202	101601	3	0.38268	101602		3-0.70711		CM520223
CM520223	1	5202	101603	3	0.92388					
MPC				-1.		101600	4	.0		CM520214
CM520214	1	5202	101601	4	0.38268	101602		4-0.70711		CM520224
CM520224	1	5202	101603	4	0.92388					
MPC				-1.		101600	5	.0		CM520215
CM520215	1	5202	101601	5	0.38268	101602		5-0.70711		CM520225
CM520225	1	5202	101603	5	0.92388					
MPC				-1.		101600	6	1.00000		CM520216
CM520216	1	5202	101601	6		101602				

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SORTED BULK DATA ECHD

CARD	1	2	3	4	5	6	7	8	9	10
5701-	EMSE20216	101601	101601	6-0.92388	101602	6-0.70711	6-0.70711	6-0.70711	6-0.70711	EMSE20226
5702-	EMSE20226	101603	101603	6-0.38268						
5703-	MPC	5203	1	-1.	101600	1	1.00000	1.00000	1.00000	EMSE20311
5704-	EMSE20311	101601	101601	1-1.00000	101602	1	1.00000	1.00000	1.00000	EMSE20321
5705-	EMSE20321	101603	101603	1-1.00000						
5706-	MPC	5203	2	-1.	101600	2	1.00000	1.00000	1.00000	EMSE20312
5707-	EMSE20312	101601	101601	2-1.00000	101602	2	1.00000	1.00000	1.00000	EMSE20322
5708-	EMSE20322	101603	101603	2-1.00000						
5709-	MPC	5203	3	-1.	101600	3	.0	.0	.0	EMSE20313
5710-	EMSE20313	101601	101601	3-0.00000	101602	3	3-0.00000	3-0.00000	3-0.00000	EMSE20323
5711-	EMSE20323	101603	101603	3-0.00000						
5712-	MPC	5203	4	-1.	101600	4	.0	.0	.0	EMSE20314
5713-	EMSE20314	101601	101601	4-0.00000	101602	4	4-0.00000	4-0.00000	4-0.00000	EMSE20324
5714-	EMSE20324	101603	101603	4-0.00000						
5715-	MPC	5203	5	-1.	101600	5	.0	.0	.0	EMSE20315
5716-	EMSE20315	101601	101601	5-0.00000	101602	5	5-0.00000	5-0.00000	5-0.00000	EMSE20325
5717-	EMSE20325	101603	101603	5-0.00000						
5718-	MPC	5203	6	-1.	101600	6	1.00000	1.00000	1.00000	EMSE20316
5719-	EMSE20316	101601	101601	6-1.00000	101602	6	6-1.00000	6-1.00000	6-1.00000	EMSE20326
5720-	EMSE20326	101603	101603	6-1.00000						
5721-	MPC	5204	1	1.	101600	1	-.9919	-.9919	-.9919	EXI
5722-	EXI	101600	2	.1269						
5723-	MPC	807C	1	-1.	110400	1	1.00000	1.00000	1.00000	EMR07011
5724-	EMR07011	110401	110401	1-1.00000	110402	1	1.00000	1.00000	1.00000	EMR07021
5725-	EMR07021	110403	110403	1-1.00000						
5726-	MPC	8070	2	-1.	110400	2	.0	.0	.0	EMR07012
5727-	EMR07012	110401	110401	2-0.0	110402	2	2-0.0	2-0.0	2-0.0	EMR07022
5728-	EMR07022	110403	110403	2-0.0						
5729-	MPC	807C	3	-1.	110400	3	1.00000	1.00000	1.00000	EMR07013
5730-	EMR07013	110401	110401	3-1.00000	110402	3	3-1.00000	3-1.00000	3-1.00000	EMR07023
5731-	EMR07023	110403	110403	3-1.00000						
5732-	MPC	807C	4	-1.	110400	4	.0	.0	.0	EMR07014
5733-	EMR07014	110401	110401	4-0.0	110402	4	4-0.0	4-0.0	4-0.0	EMR07024
5734-	EMR07024	110403	110403	4-0.0						
5735-	MPC	807C	5	-1.	110400	5	1.00000	1.00000	1.00000	EMR07015
5736-	EMR07015	110401	110401	5-1.00000	110402	5	5-1.00000	5-1.00000	5-1.00000	EMR07025
5737-	EMR07025	110403	110403	5-1.00000						
5738-	MPC	807C	6	-1.	110400	6	.0	.0	.0	EMR07016
5739-	EMR07016	110401	110401	6-0.0	110402	6	6-0.0	6-0.0	6-0.0	EMR07026
5740-	EMR07026	110403	110403	6-0.0						
5741-	MPC	8071	1	-1.	110400	1	1.00000	1.00000	1.00000	EMR07111
5742-	EMR07111	110401	110401	1-0.92388	110402	1	1-0.70711	1-0.70711	1-0.70711	EMR07121
5743-	EMR07121	110403	110403	1-0.38268						
5744-	MPC	8071	2	-1.	110400	2	.0	.0	.0	EMR07112
5745-	EMR07112	110401	110401	2-0.38268	110402	2	2-0.70711	2-0.70711	2-0.70711	EMR07122
5746-	EMR07122	110403	110403	2-0.92388						
5747-	MPC	8071	3	-1.	110400	3	1.00000	1.00000	1.00000	EMR07113
5748-	EMR07113	110401	110401	3-0.92388	110402	3	3-0.70711	3-0.70711	3-0.70711	EMR07123
5749-	EMR07123	110403	110403	3-0.38268						
5750-	MPC	8071	4	-1.	110400	4	.0	.0	.0	EMR07114

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

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S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
5751-	EM807114	110401	4	0.38268	110402	4	0.70711			EM807124
5752-	EM807124	110403	4	0.92388						
5753-	MPC	8071	5	-1.	110400	5	1.00000			EM807115
5754-	EM807115	110401	5	0.92388	110402	5	0.70711			EM807125
5755-	EM807125	110403	5	0.38268						
5756-	MPC	8071	6	-1.	110400	6	.0			EM807116
5757-	EM807116	110401	6	0.38268	110402	6	0.70711			EM807126
5758-	EM807126	110403	6	0.92388						
5759-	MPC	8072	1	-1.	110400	1	1.00000			EM807211
5760-	EM807211	110401	1	0.70711	110402	1	0.00000			EM807221
5761-	EM807221	110403	2	-1.	110400	2	.0			EM807212
5762-	MPC	8072	2	0.70711	110402	2	1.00000			EM807222
5763-	EM807212	110401	2	0.70711	110402	2	0.00000			
5764-	EM807222	110403	3	-1.	110400	3	1.00000			EM807213
5765-	MPC	8072	3	0.70711	110402	3	0.00000			EM807223
5766-	EM807213	110401	3	0.70711	110402	3	0.00000			
5767-	EM807223	110403	4	-1.	110400	4	.0			EM807214
5768-	MPC	8072	4	0.70711	110402	4	1.00000			EM807224
5769-	EM807214	110401	4	0.70711	110402	4	0.00000			
5770-	EM807224	110403	5	-1.	110400	5	1.00000			EM807215
5771-	MPC	8072	5	0.70711	110402	5	0.00000			EM807225
5772-	EM807215	110401	5	0.70711	110402	5	0.00000			
5773-	EM807225	110403	6	-1.	110400	6	.0			EM807216
5774-	MPC	8072	6	0.70711	110402	6	1.00000			EM807226
5775-	EM807216	110401	6	0.70711	110402	6	0.00000			
5776-	EM807226	110403	1	-1.	110400	1	1.00000			EM807311
5777-	MPC	8072	1	0.38268	110402	1	0.70711			EM807321
5778-	EM807311	110401	1	0.38268	110402	1	0.00000			
5779-	EM807321	110403	2	-1.	110400	2	.0			EM807312
5780-	MPC	8072	2	0.92388	110402	2	0.70711			EM807322
5781-	EM807312	110401	2	0.92388	110402	2	0.00000			
5782-	EM807322	110403	3	-1.	110400	3	1.00000			EM807313
5783-	MPC	8073	3	0.38268	110402	3	0.70711			EM807323
5784-	EM807313	110401	3	0.38268	110402	3	0.00000			
5785-	EM807323	110403	4	-1.	110400	4	.0			EM807314
5786-	MPC	8072	4	0.92388	110402	4	0.70711			EM807324
5787-	EM807314	110401	4	0.92388	110402	4	0.00000			
5788-	EM807324	110403	5	-1.	110400	5	1.00000			EM807315
5789-	MPC	8072	5	0.38268	110402	5	0.70711			EM807325
5790-	EM807315	110401	5	0.38268	110402	5	0.00000			
5791-	EM807325	110403	6	-1.	110400	6	.0			EM807316
5792-	MPC	8072	6	0.92388	110402	6	0.70711			EM807326
5793-	EM807316	110401	6	0.92388	110402	6	0.00000			
5794-	EM807326	110403	1	-1.	110400	1	1.00000			EM807411
5795-	MPC	8074	1	0.19732	110402	1	0.92213			EM807421
5796-	EM807411	110401	1	0.19732	110402	1	0.00000			
5797-	EM807421	110403	2	-1.	110400	2	.0			EM807412
5798-	MPC	8074	2	0.98034	110402	2	0.38687			EM807422
5799-	EM807412	110401	2	0.98034	110402	2	0.00000			
5800-	EM807422	110403	3	-1.	110400	3	1.00000			

EXTERNAL TANK W. FLUID
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CARD	1	2	3	4	5	6	7	8	9	10
5301-	MPC	1	8074	3	-1.	110400	3	1.00000		10
5302-	EM807413		110401		3	0.19732	110402	3-0.92213		EM807413
5303-	EM807423		110403		3-0.56122					EM807423
5304-	MPC	1	8074	4	-1.	110400	4	.0		EM807414
5305-	EM807414		110401		4	0.98034	110402	4	0.38687	EM807424
5306-	EM807424		110403		4-0.82767					EM807424
5307-	MPC	1	8074	5	-1.	110400	5	1.00000		EM807415
5308-	EM807415		110401		5	0.19732	110402	5-0.92213		EM807425
5309-	EM807425		110403		5-0.56122					EM807425
5310-	MPC	1	8074	6	-1.	110400	6	.0		EM807416
5311-	EM807416		110401		6	0.98034	110402	6	0.38687	EM807426
5312-	EM807426		110403		6-0.82767					EM807426
5313-	MPC	1	8075	1	-1.	110400	1	1.00000		EM807511
5314-	EM807511		110401		1	0.00000	110402	1-1.00000		EM807521
5315-	EM807521		110403		1-0.00000					EM807521
5316-	MPC	1	8075	2	-1.	110400	2	.0		EM807512
5317-	EM807512		110401		2	1.00000	110402	2	0.00000	EM807522
5318-	EM807522		110403		2-1.00000					EM807522
5319-	MPC	1	8075	3	-1.	110400	3	1.00000		EM807513
5320-	EM807513		110401		3	0.00000	110402	3-1.00000		EM807523
5321-	EM807523		110403		3-0.00000					EM807523
5322-	MPC	1	8075	4	-1.	110400	4	.0		EM807514
5323-	EM807514		110401		4	1.00000	110402	4	0.00000	EM807524
5324-	EM807524		110403		4-1.00000					EM807524
5325-	MPC	1	8075	5	-1.	110400	5	1.00000		EM807515
5326-	EM807515		110401		5	0.00000	110402	5-1.00000		EM807525
5327-	EM807525		110403		5-0.00000					EM807525
5328-	MPC	1	8075	6	-1.	110400	6	.0		EM807516
5329-	EM807516		110401		6	1.00000	110402	6	0.00000	EM807526
5330-	EM807526		110403		6-1.00000					EM807526
5331-	MPC	1	8076	1	-1.	110400	1	1.00000		EM807611
5332-	EM807611		110401		1	0.38268	110402	1-0.3711		EM807621
5333-	EM807621		110403		1	0.92388				EM807612
5334-	MPC	1	8076	2	-1.	110400	2	.0		EM807612
5335-	EM807612		110401		2	0.92388	110402	2-0.70711		EM807622
5336-	EM807622		110403		2-0.38269					EM807613
5337-	MPC	1	8076	3	-1.	110400	3	1.00000		EM807623
5338-	EM807613		110401		3	0.38268	110402	3-0.70711		EM807623
5339-	EM807623		110403		3	0.92388				EM807614
5340-	MPC	1	8076	4	-1.	110400	4	.0		EM807614
5341-	EM807614		110401		4	0.92388	110402	4-0.70711		EM807624
5342-	EM807624		110403		4-0.38269					EM807615
5343-	MPC	1	8076	5	-1.	110400	5	1.00000		EM807625
5344-	EM807615		110401		5	0.38268	110402	5-0.70711		EM807625
5345-	EM807625		110403		5	0.92388				EM807616
5346-	MPC	1	8076	6	-1.	110400	6	.0		EM807616
5347-	EM807616		110401		6	0.92388	110402	6-0.70711		EM807626
5348-	EM807626		110403		6-0.38269					EM807626
5349-	MPC	1	8077	1	-1.	110400	1	1.00000		EM807711
5350-	EM807711		110401		1	0.70711	110402	1-0.00000		EM807721

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5850- CM8C7721	1	110403	1	0.70711						
5851- MPC	1	8077	2	-1.	110400	2	.0			CM807712
5852- CM8C7712	1	110401	2	0.70711	110402		2-1.00000			CM807722
5853- CM8C7722	1	110403	2	0.70710						
5854- MPC	1	8077	3	-1.	110400	3	1.00000			CM807713
5855- CM8C7713	1	110401	3	0.70711	110402		3-0.00000			CM807723
5856- CM8C7723	1	110403	3	0.70711						
5857- MPC	1	8077	4	-1.	110400	4	.0			CM807714
5858- CM8C7714	1	110401	4	0.70711	110402		4-1.00000			CM807724
5859- CM8C7724	1	110403	4	0.70710						
5860- MPC	1	8077	5	-1.	110400	5	1.00000			CM807715
5861- CM8C7715	1	110401	5	0.70711	110402		5-0.00000			CM807725
5862- CM8C7725	1	110403	5	0.70711						
5863- MPC	1	8077	6	-1.	110400	6	.0			CM807716
5864- CM8C7716	1	110401	6	0.70711	110402		6-1.00000			CM807726
5865- CM8C7726	1	110403	6	0.70710						
5866- MPC	1	8078	1	-1.	110400	1	1.00000			CM807811
5867- CM8C7811	1	110401	1	0.92388	110402		1 0.70711			CM807821
5868- CM8C7821	1	110403	1	0.38268						
5869- MPC	1	8078	2	-1.	110400	2	.0			CM807812
5870- CM8C7812	1	110401	2	0.38268	110402		2-0.70711			CM807822
5871- CM8C7822	1	110403	2	0.92388						
5872- MPC	1	8078	3	-1.	110400	3	1.00000			CM807813
5873- CM8C7813	1	110401	3	0.92388	110402		3 0.70711			CM807823
5874- CM8C7823	1	110403	3	0.38268						
5875- MPC	1	8078	4	-1.	110400	4	.0			CM807814
5876- CM8C7814	1	110401	4	0.38268	110402		4-0.70711			CM807824
5877- CM8C7824	1	110403	4	0.92388						
5878- MPC	1	8078	5	-1.	110400	5	1.00000			CM807815
5879- CM8C7815	1	110401	5	0.92388	110402		5 0.70711			CM807825
5880- CM8C7825	1	110403	5	0.38268						
5881- MPC	1	8078	6	-1.	110400	6	.0			CM807816
5882- CM8C7816	1	110401	6	0.38268	110402		6-0.70711			CM807826
5883- CM8C7826	1	110403	6	0.92388						
5884- MPC	1	8079	1	-1.	110400	1	1.00000			CM807911
5885- CM8C7911	1	110401	1	1.00000	110402		1 1.00000			CM807921
5886- CM8C7921	1	110403	1	1.00000						
5887- MPC	1	8079	2	-1.	110400	2	.0			CM807912
5888- CM8C7912	1	110401	2	0.00000	110402		2-0.00000			CM807922
5889- CM8C7922	1	110403	2	0.00000						
5890- MPC	1	8079	3	-1.	110400	3	1.00000			CM807913
5891- CM8C7913	1	110401	3	1.00000	110402		3 1.00000			CM807923
5892- CM8C7923	1	110403	3	1.00000						
5893- MPC	1	8079	4	-1.	110400	4	.0			CM807914
5894- CM8C7914	1	110401	4	0.00000	110402		4-0.00000			CM807924
5895- CM8C7924	1	110403	4	0.00000						
5896- MPC	1	8079	5	-1.	110400	5	1.00000			CM807915
5897- CM8C7915	1	110401	5	1.00000	110402		5 1.00000			CM807925
5898- CM8C7925	1	110403	5	1.00000						
5899- MPC	1	8079	6	-1.	110400	6	.0			CM807916

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5701- CM8C7916	1	110401	6 0.0000	110402	6-0.0000					CM811016
5702- CM8C7926	1	110403	6 0.0000							CM811026
5703- MPC	1	8110	-1.	110100	1 1.00000					CM811011
5704- CM811011	1	110101	1 1.00000	110102	1 1.00000					CM811021
5705- CM811021	1	110103	1 1.00000							
5706- MPC	1	811C	-1.	110100	2 .0					CM811012
5707- CM811012	1	110101	2 0.0	110102	2 0.0					CM811022
5708- CM811022	1	110103	2 0.0							
5709- MPC	1	811C	-1.	110100	3 1.00000					CM811013
5710- CM811013	1	110101	3 1.00000	110102	3 1.00000					CM811023
5711- CM811023	1	110103	3 1.00000							
5712- MPC	1	8110	-1.	110100	4 .0					CM811014
5713- CM811014	1	110101	4 0.0	110102	4 0.0					CM811024
5714- CM811024	1	110103	4 0.0							
5715- MPC	1	811C	-1.	110100	5 1.00000					CM811015
5716- CM811015	1	110101	5 1.00000	110102	5 1.00000					CM811025
5717- CM811025	1	110103	5 1.00000							
5718- MPC	1	811C	-1.	110100	6 .0					CM811016
5719- CM811016	1	110101	6 0.0	110102	6 0.0					CM811026
5720- CM811026	1	110103	6 0.0							
5721- MPC	1	8111	-1.	110100	1 1.00000					CM811111
5722- CM811111	1	110101	1 0.92388	110102	1 0.70711					CM811121
5723- CM811121	1	110103	1 0.38268							
5724- MPC	1	8111	-1.	110100	2 .0					CM811112
5725- CM811112	1	110101	2 0.38268	110102	2 0.70711					CM811122
5726- CM811122	1	110103	2 0.92388							
5727- MPC	1	8111	-1.	110100	3 1.00000					CM811113
5728- CM811113	1	110101	3 0.92388	110102	3 0.70711					CM811123
5729- CM811123	1	110103	3 0.38268							
5730- MPC	1	8111	-1.	110100	4 .0					CM811114
5731- CM811114	1	110101	4 0.38268	110102	4 0.70711					CM811124
5732- CM811124	1	110103	4 0.92388							
5733- MPC	1	8111	-1.	110100	5 1.00000					CM811115
5734- CM811115	1	110101	5 0.92388	110102	5 0.70711					CM811125
5735- CM811125	1	110103	5 0.38268							
5736- MPC	1	8111	-1.	110100	6 .0					CM811116
5737- CM811116	1	110101	6 0.38268	110102	6 0.70711					CM811126
5738- CM811126	1	110103	6 0.92388							
5739- MPC	1	8112	-1.	110100	1 1.00000					CM811211
5740- CM811211	1	110101	1 0.70711	110102	1 0.00000					CM811221
5741- CM811221	1	110103	1-0.70711							
5742- MPC	1	8112	-1.	110100	2 .0					CM811212
5743- CM811212	1	110101	2 0.70711	110.02	2 1.00000					CM811222
5744- CM811222	1	110103	2 0.70711							
5745- MPC	1	8112	-1.	110100	3 1.00000					CM811213
5746- CM811213	1	110101	3 0.70711	110102	3 0.00000					CM811223
5747- CM811223	1	110103	3-0.70711							
5748- MPC	1	8112	-1.	110100	4 .0					CM811214
5749- CM811214	1	110101	4 0.70711	110102	4 1.00000					CM811224
5750- CM811224	1	110103	4 0.70711							

INTERNAL TANK W. FLUID
HARMONIC REDUCTION

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5951-	MPC	1	8112	5	-1.	110100	5	1.00000		EM811215
5952-	EM811215		110101		5 0.70711	110102		5 0.00000		EM811225
5953-	EM811225		110103		5-0.70711					
5954-	MPC	1	8112	6	-1.	110100	6	.0		EM811216
5955-	EM811216		110101		6 0.70711	110102		6 1.00000		EM811226
5956-	EM811226		110103		6 0.70711					
5957-	MPC	1	8113	1	-1.	110100	1	1.00000		EM811311
5958-	EM811311		110101		1 0.38268	110102		1-0.70711		EM811321
5959-	EM811321		110103		1-0.92388					
5960-	MPC	1	8113	2	-1.	110100	2	.0		EM811312
5961-	EM811312		110101		2 0.92388	110102		2 0.70711		EM811322
5962-	EM811322		110103		2-0.38268					
5963-	MPC	1	8113	3	-1.	110100	3	1.00000		EM811313
5964-	EM811313		110101		3 0.38268	110102		3-0.70711		EM811323
5965-	EM811323		110103		3-0.92388					
5966-	MPC	1	8113	4	-1.	110100	4	.0		EM811314
5967-	EM811314		110101		4 0.92388	110102		4 0.70711		EM811324
5968-	EM811324		110103		4-0.38268					
5969-	MPC	1	8113	5	-1.	110100	5	1.00000		EM811315
5970-	EM811315		110101		5 0.38268	110102		5-0.70711		EM811325
5971-	EM811325		110103		5-0.92388					
5972-	MPC	1	8113	6	-1.	110100	6	.0		EM811316
5973-	EM811316		110101		6 0.92388	110102		6 0.70711		EM811326
5974-	EM811326		110103		6-0.38268					
5975-	MPC	1	8114	1	-1.	110100	1	1.00000		EM811411
5976-	EM811411		110101		1 0.19732	110102		1-0.92213		EM811421
5977-	EM811421		110103		1-0.56122					
5978-	MPC	1	8114	2	-1.	110100	2	.0		EM811412
5979-	EM811412		110101		2 0.98034	110102		2 0.38687		EM811422
5980-	EM811422		110103		2-0.82767					
5981-	MPC	1	8114	3	-1.	110100	3	1.00000		EM811413
5982-	EM811413		110101		3 0.19732	110102		3-0.92213		EM811423
5983-	EM811423		110103		3-0.56122					
5984-	MPC	1	8114	4	-1.	110100	4	.0		EM811414
5985-	EM811414		110101		4 0.98034	110102		4 0.38687		EM811424
5986-	EM811424		110103		4-0.82767					
5987-	MPC	1	8114	5	-1.	110100	5	1.00000		EM811415
5988-	EM811415		110101		5 0.19732	110102		5-0.92213		EM811425
5989-	EM811425		110103		5-0.56122					
5990-	MPC	1	8114	6	-1.	110100	6	.0		EM811416
5991-	EM811416		110101		6 0.98034	110102		6 0.38687		EM811426
5992-	EM811426		110103		6-0.82767					
5993-	MPC	1	8115	1	-1.	110100	1	1.00000		EM811511
5994-	EM811511		110101		1 0.00000	110102		1-1.00000		EM811521
5995-	EM811521		110103		1-0.00000					
5996-	MPC	1	8115	2	-1.	110100	2	.0		EM811512
5997-	EM811512		110101		2 1.00000	110102		2 0.00000		EM811522
5998-	EM811522		110103		2-1.00000					
5999-	MPC	1	8115	3	-1.	110100	3	1.00000		EM811513
5000-	EM811513		110101		3 0.00000	110102		3-1.00000		EM811523

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EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6001-	EMR11523	1	110103	3-0.00000						EMR11514
6002-	MPC	8115	4	-1.	110100	4	.0			EMR11524
6003-	EMR11514		110101	4 1.00000	110102		4 0.00000			
6004-	EMR11524		110103	4-1.00000						
6005-	MPC	8115	5	-1.	110100	5	1.00000			EMR11515
6006-	EMR11515		110101	5 0.00000	110102		5-1.00000			EMR11525
6007-	EMR11525		110103	5-0.00000						
6008-	MPC	8115	6	-1.	110100	6	.0			EMR11516
6009-	EMR11516		110101	6 1.00000	110102		6 0.00000			EMR11526
6010-	EMR11526		110103	6-1.00000						
6011-	MPC	8116	1	-1.	110100	1	1.00000			EMR11611
6012-	EMR11611		110101	1-0.38268	110102		1-0.70711			EMR11621
6013-	EMR11621		110103	1 0.92388						
6014-	MPC	8116	2	-1.	110100	2	.0			EMR11612
6015-	EMR11612		110101	2 0.92388	110102		2-0.70711			EMR11622
6016-	EMR11622		110103	2-0.38269						
6017-	MPC	8116	3	-1.	110100	3	1.00000			EMR11613
6018-	EMR11613		110101	3-0.38268	110102		3-0.70711			EMR11623
6019-	EMR11623		110103	3 0.92388						
6020-	MPC	8116	4	-1.	110100	4	.0			EMR11614
6021-	EMR11614		110101	4 0.92388	110102		4-0.70711			EMR11624
6022-	EMR11624		110103	4-0.38269						
6023-	MPC	8116	5	-1.	110100	5	1.00000			EMR11615
6024-	EMR11615		110101	5-0.38268	110102		5-0.70711			EMR11625
6025-	EMR11625		110103	5 0.92388						
6026-	MPC	8116	6	-1.	110100	6	.0			EMR11616
6027-	EMR11616		110101	6 0.92388	110102		6-0.70711			EMR11626
6028-	EMR11626		110103	6-0.38269						
6029-	MPC	8117	1	-1.	110100	1	1.00000			EMR11711
6030-	EMR11711		110101	1-0.70711	110102		1-0.00000			EMR11721
6031-	EMR11721		110103	1 0.70711						
6032-	MPC	8117	2	-1.	110100	2	.0			EMR11712
6033-	EMR11712		110101	2 0.70711	110102		2-1.00000			EMR11722
6034-	EMR11722		110103	2 0.70710						
6035-	MPC	8117	3	-1.	110100	3	1.00000			EMR11713
6036-	EMR11713		110101	3-0.70711	110102		3-0.00000			EMR11723
6037-	EMR11723		110103	3 0.70711						
6038-	MPC	8117	4	-1.	110100	4	.0			EMR11714
6039-	EMR11714		110101	4 0.70711	110102		4-1.00000			EMR11724
6040-	EMR11724		110103	4 0.70710						
6041-	MPC	8117	5	-1.	110100	5	1.00000			EMR11715
6042-	EMR11715		110101	5-0.70711	110102		5-0.00000			EMR11725
6043-	EMR11725		110103	5 0.70711						
6044-	MPC	8117	6	-1.	110100	6	.0			EMR11716
6045-	EMR11716		110101	6 0.70711	110102		6-1.00000			EMR11726
6046-	EMR11726		110103	6 0.70710						
6047-	MPC	8118	1	-1.	110100	1	1.00000			EMR11811
6048-	EMR11811		110101	1-0.92388	110102		1 0.70711			EMR11821
6049-	EMR11821		110103	1-0.38268						
6050-	MPC	8118	2	-1.	110100	2	.0			EMR11812

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Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6051-	EM811812	110101	2	0.38268	110102	2-0.70711				EM811822
6052-	EM811822	110103	2	0.92388						
6053-	MPC	8118	3	-1.	110100	3	1.00000			EM811813
6054-	EM811813	110101	3-0.92388	110102	3	0.70711				EM811823
6055-	EM811823	110103	3-0.38268							
6056-	MPC	8118	4	-1.	110100	4	.0			EM811814
6057-	EM811814	110101	4	0.38268	110102	4-0.70711				EM811824
6058-	EM811824	110103	4	0.92388						
6059-	MPC	8118	5	-1.	110100	5	1.00000			EM811815
6060-	EM811815	110101	5-0.92388	110102	5	0.70711				EM811825
6061-	EM811825	110103	5-0.38268							
6062-	MPC	8118	6	-1.	110100	6	.0			EM811816
6063-	EM811816	110101	6	0.38268	110102	6-0.70711				EM811826
6064-	EM811826	110103	6	0.92388						
6065-	MPC	8119	1	-1.	110100	1	1.00000			EM811911
6066-	EM811911	110101	1-1.00000	110102	1	1.00000				EM811921
6067-	EM811921	110103	1-1.00000							
6068-	MPC	8119	2	-1.	110100	2	.0			EM811912
6069-	EM811912	110101	2	0.00000	110102	2-0.00000				EM811922
6070-	EM811922	110103	2	0.00000						
6071-	MPC	8119	3	-1.	110100	3	1.00000			EM811913
6072-	EM811913	110101	3-1.00000	110102	3	1.00000				EM811923
6073-	EM811923	110103	3-1.00000							
6074-	MPC	8119	4	-1.	110100	4	.0			EM811914
6075-	EM811914	110101	4	0.00000	110102	4-0.00000				EM811924
6076-	EM811924	110103	4	0.00000						
6077-	MPC	8119	5	-1.	110100	5	1.00000			EM811915
6078-	EM811915	110101	5-1.00000	110102	5	1.00000				EM811925
6079-	EM811925	110103	5-1.00000							
6080-	MPC	8119	6	-1.	110100	6	.0			EM811916
6081-	EM811916	110101	6	0.00000	110102	6-0.00000				EM811926
6082-	EM811926	110103	6	0.00000						
6083-	MPC	8120	1	-1.	110200	1	1.00000			EM813011
6084-	EM813011	110201	1	1.00000	110202	1	1.00000			EM813021
6085-	EM813021	110203	1	1.00000						
6086-	MPC	8130	2	-1.	110200	2	.0			EM813012
6087-	EM813012	110201	2	0.0	110202	2	0.0			EM813022
6088-	EM813022	110203	2	0.0						
6089-	MPC	8130	3	-1.	110200	3	1.00000			EM813013
6090-	EM813013	110201	3	1.00000	110202	3	1.00000			EM813023
6091-	EM813023	110203	3	1.00000						
6092-	MPC	8130	4	-1.	110200	4	.0			EM813014
6093-	EM813014	110201	4	0.0	110202	4	0.0			EM813024
6094-	EM813024	110203	4	0.0						
6095-	MPC	8130	5	-1.	110200	5	1.00000			EM813015
6096-	EM813015	110201	5	1.00000	110202	5	1.00000			EM813025
6097-	EM813025	110203	5	1.00000						
6098-	MPC	8130	6	-1.	110200	6	.0			EM813016
6099-	EM813016	110201	6	0.0	110202	6	0.0			EM813026
6100-	EM813026	110203	6	0.0						

Volume II

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
5101-	MPC	8131	1	-1.	110200	1	1.00000			EM813111
5102-	EM813111	110201		1	0.92388	110202				EM813121
5103-	EM813121	110203		1	0.38268					EM813112
5104-	MPC	8131	2	-1.	110200	2	.0			EM813122
5105-	EM813112	110201		2	0.38268	110202				EM813113
5106-	EM813122	110203		2	0.92388					EM813123
5107-	MPC	8131	3	-1.	110200	3	1.00000			EM813114
5108-	EM813113	110201		3	0.92388	110202				EM813124
5109-	EM813123	110203		3	0.38268					EM813115
5110-	MPC	8131	4	-1.	110200	4	.0			EM813125
5111-	EM813114	110201		4	0.38268	110202				EM813116
5112-	EM813124	110203		4	0.92388					EM813126
5113-	MPC	8131	5	-1.	110200	5	1.00000			EM813211
5114-	EM813115	110201		5	0.92388	110202				EM813221
5115-	EM813125	110203		5	0.38268					EM813212
5116-	MPC	8131	6	-1.	110200	6	.0			EM813222
5117-	EM813116	110201		6	0.38268	110202				EM813213
5118-	EM813126	110203		6	0.92388					EM813223
5119-	MPC	8132	1	-1.	110200	1	1.00000			EM813214
5120-	EM813211	110201		1	0.70711	110202				EM813224
5121-	EM813221	110203		1	0.70711					EM813215
5122-	MPC	8132	2	-1.	110200	2	.0			EM813225
5123-	EM813212	110201		2	0.70711	110202				EM813216
5124-	EM813222	110203		2	0.70711					EM813226
5125-	MPC	8132	3	-1.	110200	3	1.00000			EM813311
5126-	EM813213	110201		3	0.70711	110202				EM813321
5127-	EM813223	110203		3	0.70711					EM813312
5128-	MPC	8132	4	-1.	110200	4	.0			EM813322
5129-	EM813214	110201		4	0.70711	110202				EM813313
5130-	EM813224	110203		4	0.70711					EM813323
5131-	MPC	8132	5	-1.	110200	5	1.00000			EM813314
5132-	EM813215	110201		5	0.70711	110202				EM813324
5133-	EM813225	110203		5	0.70711					EM813315
5134-	MPC	8132	6	-1.	110200	6	.0			EM813325
5135-	EM813216	110201		6	0.70711	110202				EM813216
5136-	EM813226	110203		6	0.70711					EM813226
5137-	MPC	8132	1	-1.	110200	1	1.00000			EM813311
5138-	EM813311	110201		1	0.38268	110202				EM813321
5139-	EM813321	110203		1	0.92388					EM813312
5140-	MPC	8132	2	-1.	110200	2	.0			EM813322
5141-	EM813312	110201		2	0.92388	110202				EM813313
5142-	EM813322	110203		2	0.38268					EM813323
5143-	MPC	8132	3	-1.	110200	3	1.00000			EM813314
5144-	EM813313	110201		3	0.38268	110202				EM813324
5145-	EM813323	110203		3	0.92388					EM813315
5146-	MPC	8132	4	-1.	110200	4	.0			EM813325
5147-	EM813314	110201		4	0.92388	110202				EM813316
5148-	EM813324	110203		4	0.38268					EM813326
5149-	MPC	8132	5	-1.	110200	5	1.00000			EM813317
5150-	EM813315	110201		5	0.38268	110202				EM813327

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6151-	EM813325		110203	5-0.92388						EM813316
6152-	MPC	8136	6	-1.	110200	6		.0		EM813326
6153-	EM813316		110201	6 0.92388	110202		6 0.70711			
6154-	EM813326		110203	6-0.38268						
6155-	MPC	8135	1	-1.	110200	1		1.00000		EM813511
6156-	EM813511		110201	1 0.00000	110202		1-1.00000			EM813521
6157-	EM813521		110203	1-0.00000						
6158-	MPC	8135	2	-1.	110200	2		.0		EM813512
6159-	EM813512		110201	2 1.00000	110202		2 0.00000			EM813522
6160-	EM813522		110203	2-1.00000						
6161-	MPC	8135	3	-1.	110200	3		1.00000		EM813513
6162-	EM813513		110201	3 0.00000	110202		3-1.00000			EM813523
6163-	EM813523		110203	3-0.00000						
6164-	MPC	8135	4	-1.	110200	4		.0		EM813514
6165-	EM813514		110201	4 1.00000	110202		4 0.00000			EM813524
6166-	EM813524		110203	4-1.00000						
6167-	MPC	8135	5	-1.	110200	5		1.00000		EM813515
6168-	EM813515		110201	5 0.00000	110202		5-1.00000			EM813525
6169-	EM813525		110203	5-0.00000						
6170-	MPC	8135	6	-1.	110200	6		.0		EM813516
6171-	EM813516		110201	6 1.00000	110202		6 0.00000			EM813526
6172-	EM813526		110203	6-1.00000						
6173-	MPC	8136	1	-1.	110200	1		1.00000		EM813611
6174-	EM813611		110201	1-0.38268	110202		1-0.70711			EM813621
6175-	EM813621		110203	1 0.92388						
6176-	MPC	8136	2	-1.	110200	2		.0		EM813612
6177-	EM813612		110201	2 0.92388	110202		2-0.70711			EM813622
6178-	EM813622		110203	2-0.38269						
6179-	MPC	8136	3	-1.	110200	3		1.00000		EM813613
6180-	EM813613		110201	3-0.38268	110202		3-0.70711			EM813623
6181-	EM813623		110203	3 0.92348						
6182-	MPC	8136	4	-1.	110200	4		.0		EM813614
6183-	EM813614		110201	4 0.92388	110202		4-0.70711			EM813624
6184-	EM813624		110203	4-0.38269						
6185-	MPC	8136	5	-1.	110200	5		1.00000		EM813615
6186-	EM813615		110201	5-0.38268	110202		5-0.70711			EM813625
6187-	EM813625		110203	5 0.92388						
6188-	MPC	8136	6	-1.	110200	6		.0		EM813616
6189-	EM813616		110201	6 0.92388	110202		6-0.70711			EM813626
6190-	EM813626		110203	6-0.38269						
6191-	MPC	8137	1	-1.	110200	1		1.00000		EM813711
6192-	EM813711		110201	1-0.70711	110202		1-0.00000			EM813721
6193-	EM813721		110203	1 0.70711						
6194-	MPC	8137	2	-1.	110200	2		.0		EM813712
6195-	EM813712		110201	2 0.70711	110202		2-1.00000			EM813722
6196-	EM813722		110203	2 0.70710						
6197-	MPC	8137	3	-1.	110200	3		1.00000		EM813713
6198-	EM813713		110201	3-0.70711	110202		3-0.00000			EM813723
6199-	EM813723		110203	3 0.70711						
6200-	MPC	8137	4	-1.	110200	4		.0		EM813714

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6201-	CM813714	1	110201	4	0.70711	110202	4	1.00000		CM813724
6202-	CM813724		110203	4	0.70710					
6203-	MPC	1	8137	5	-1.	110200	5	1.00000		CM813715
6204-	CM813715		110201	5	0.70711	110202	5	0.00000		CM813725
6205-	CM813725		110203	5	0.70711					
6206-	MPC	1	8137	6	-1.	110200	6	.0		CM813716
6207-	CM813716		110201	6	0.70711	110202	6	1.00000		CM813726
6208-	CM813726		110203	6	0.70710					
6209-	MPC	1	8138	1	-1.	110200	1	1.00000		CM813811
6210-	CM813811		110201	1	0.92388	110202	1	0.70711		CM813821
6211-	CM813821		110203	1	0.38268					
6212-	MPC	1	8138	2	-1.	110200	2	.0		CM813812
6213-	CM813812		110201	2	0.38268	110202	2	2.0.70711		CM813822
6214-	CM813822		110203	2	0.92388					
6215-	MPC	1	8138	3	-1.	110200	3	1.00000		CM813813
6216-	CM813813		110201	3	0.92388	110202	3	0.70711		CM813823
6217-	CM813823		110203	3	0.18268					
6218-	MPC	1	8138	4	-1.	110200	4	.0		CM813814
6219-	CM813814		110201	4	0.38268	110202	4	0.70711		CM813824
6220-	CM813824		110203	4	0.92388					
6221-	MPC	1	8138	5	-1.	110200	5	1.00000		CM813815
6222-	CM813815		110201	5	0.92388	110202	5	0.70711		CM813825
6223-	CM813825		110203	5	0.38268					
6224-	MPC	1	8138	6	-1.	110200	6	.0		CM813816
6225-	CM813816		110201	6	0.38268	110202	6	0.70711		CM813826
6226-	CM813826		110203	6	0.92388					
6227-	MPC	1	8139	1	-1.	110200	1	1.00000		CM813911
6228-	CM813911		110201	1	1.00000	110202	1	1.00000		CM813921
6229-	CM813921		110203	1	1.00000					
6230-	MPC	1	8139	2	-1.	110200	2	.0		CM813912
6231-	CM813912		110201	2	0.00000	110202	2	2.0.00000		CM813922
6232-	CM813922		110203	2	0.00000					
6233-	MPC	1	8139	3	-1.	110200	3	1.00000		CM813913
6234-	CM813913		110201	3	1.00000	110202	3	1.00000		CM813923
6235-	CM813923		110203	3	1.00000					
6236-	MPC	1	8139	4	-1.	110200	4	.0		CM813914
6237-	CM813914		110201	4	0.00000	110202	4	0.00000		CM813924
6238-	CM813924		110203	4	0.00000					
6239-	MPC	1	8139	5	-1.	110200	5	1.00000		CM813915
6240-	CM813915		110201	5	1.00000	110202	5	1.00000		CM813925
6241-	CM813925		110203	5	1.00000					
6242-	MPC	1	8139	6	-1.	110200	6	.0		CM813916
6243-	CM813916		110201	6	0.00000	110202	6	0.00000		CM813926
6244-	CM813926		110203	6	0.09000					
6245-	MPC	1	8140	1	1.	8134	3	-1.		CM8140Z
6246-	CM8140Z		8140	3	1.	8134	1	.197328		
6247-	MPC	1	8134	2	-1.	980338				
6248-	CM815011		8150	1	-1.	110300	1	1.00000		CM815011
6249-	CM815011		110301	1	1.00000	110302	1	1.00000		CM815021
6250-	CM815021		110303	1	1.00000					

S O R T E D B U L K D A T A E C H O

CARD COUNT	1	2	3	4	5	6	7	8	9	10
6251-	MPC	1	8150	2	-1.	110300	2	.0		EM815012
6252-	EM815012		110301		2 0.0	110302		0.0		EM815022
6253-	EM815022		110303		2 0.0					
6254-	MPC	1	8150	3	-1.	110307	3	1.00000		EM815013
6255-	EM815013		110301		3 1.00000	110302		3 1.00000		EM815023
6256-	EM815023		110303		3 1.00000					
6257-	MPC	1	8150	4	-1.	110300	4	.0		EM815014
6258-	EM815014		110301		4 0.0	110302		4 0.0		EM815024
6259-	EM815024		110303		4 0.0					
6260-	MPC	1	8150	5	-1.	110300	5	1.00000		EM815015
6261-	EM815015		110301		5 1.00000	110302		5 1.00000		EM815025
6262-	EM815025		110303		5 1.00000					
6263-	MPC	1	8150	6	-1.	110300	6	.0		EM815016
6264-	EM815016		110301		6 0.0	110302		6 0.0		EM815026
6265-	EM815026		110303		6 0.0					
6266-	MPC	1	8151	1	-1.	110300	1	1.00000		EM815111
6267-	EM815111		110301		1 0.92388	110302		1 0.70711		EM815121
6268-	EM815121		110303		1 0.38268					
6269-	MPC	1	8151	2	-1.	110300	2	.0		EM815112
6270-	EM815112		110301		2 0.38268	110302		2 0.70711		EM815122
6271-	EM815122		110303		2 0.92388					
6272-	MPC	1	8151	3	-1.	110300	3	1.00000		EM815113
6273-	EM815113		110301		3 0.92388	110302		3 0.70711		EM815123
6274-	EM815123		110303		3 0.38268					
6275-	MPC	1	8151	4	-1.	110300	4	.0		EM815114
6276-	EM815114		110301		4 0.38268	110302		4 0.70711		EM815124
6277-	EM815124		110303		4 0.92388					
6278-	MPC	1	8151	5	-1.	110300	5	1.00000		EM815115
6279-	EM815115		110301		5 0.92388	110302		5 0.70711		EM815125
6280-	EM815125		110303		5 0.38268					
6281-	MPC	1	8151	6	-1.	110300	6	.0		EM815116
6282-	EM815116		110301		6 0.38268	110302		6 0.70711		EM815126
6283-	EM815126		110303		6 0.92388					
6284-	MPC	1	8152	1	-1.	110100	1	1.00000		EM815211
6285-	EM815211		110301		1 0.70711	110302		1 0.00000		EM815221
6286-	EM815221		110303		1 0.70711					
6287-	MPC	1	8152	2	-1.	110300	2	.0		EM815212
6288-	EM815212		110301		2 0.70711	110302		2 1.00000		EM815222
6289-	EM815222		110303		2 0.70711					
6290-	MPC	1	8152	3	-1.	110300	3	1.00000		EM815213
6291-	EM815213		110301		3 0.70711	110302		3 0.00000		EM815223
6292-	EM815223		110303		3 0.70711					
6293-	MPC	1	8152	4	-1.	110300	4	.0		EM815214
6294-	EM815214		110301		4 0.70711	110302		4 1.00000		EM815224
6295-	EM815224		110303		4 0.70711					
6296-	MPC	1	8152	5	-1.	110300	5	1.00000		EM815215
6297-	EM815215		110301		5 0.70711	110302		5 0.00000		EM815225
6298-	EM815225		110303		5 0.70711					
6299-	MPC	1	8152	6	-1.	110100	6	.0		EM815216
6300-	EM815216		110301		6 0.70711	110302		6 1.00000		EM815226

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
5311-	EMR15226	110303	6 0.70711							EMR15311
5312-	MPC	8152	1	-1.	110300	1	1.00000			EMR15321
5313-	EMR15311	110301	1 0.38268	110302						
5314-	EMR15321	110303	1-0.92388							
5315-	MPC	8152	2	-1.	110300	2	.0			EMR15312
5316-	EMR15312	110301	2 0.92388	110302						EMR15322
5317-	EMR15322	110303	2-0.38268							
5318-	MPC	8152	3	-1.	110300	3	1.00000			EMR15313
5319-	EMR15313	110301	3 0.38268	110302						EMR15323
5320-	EMR15323	110303	3-0.92388							
5321-	MPC	8152	4	-1.	110300	4	.0			EMR15314
5322-	EMR15314	110301	4 0.92388	110302						EMR15324
5323-	EMR15324	110303	4-0.38268							
5324-	MPC	8152	5	-1.	110300	5	1.00000			EMR15315
5325-	EMR15315	110301	5 0.38268	110302						EMR15325
5326-	EMR15325	110303	5-0.92388							
5327-	MPC	8152	6	-1.	110300	6	.0			EMR15316
5328-	EMR15316	110301	6 0.92388	110302						EMR15326
5329-	EMR15326	110303	6-0.38268							
5330-	MPC	8152	1	-1.	110300	1	1.00000			EMR15411
5331-	EMR15411	110301	1 0.19732	110302						EMR15421
5332-	EMR15421	110303	1-0.56122							
5333-	MPC	8154	2	-1.	110300	2	.0			EMR15412
5334-	EMR15412	110301	2 0.98034	110302						EMR15422
5335-	EMR15422	110303	2-0.82767							
5336-	MPC	8154	3	-1.	110300	3	1.00000			EMR15413
5337-	EMR15413	110301	3 0.19732	110302						EMR15423
5338-	EMR15423	110303	3-0.56122							
5339-	MPC	8154	4	-1.	110300	4	.0			EMR15414
5340-	EMR15414	110301	4 0.98034	110302						EMR15424
5341-	EMR15424	110303	4-0.82767							
5342-	MPC	8154	5	-1.	110300	5	1.00000			EMR15415
5343-	EMR15415	110301	5 0.19732	110302						EMR15425
5344-	EMR15425	110303	5-0.56122							
5345-	MPC	8154	6	-1.	110300	6	.0			EMR15416
5346-	EMR15416	110301	6 0.98034	110302						EMR15426
5347-	EMR15426	110303	6-0.82767							
5348-	MPC	8155	1	-1.	110300	1	1.00000			EMR15511
5349-	EMR15511	110301	1 0.00000	110302						EMR15521
5350-	EMR15521	110303	1-0.00000							
5351-	MPC	8155	2	-1.	110300	2	.0			EMR15512
5352-	EMR15512	110301	2 1.00000	110302						EMR15522
5353-	EMR15522	110303	2-1.00000							
5354-	MPC	8155	3	-1.	110300	3	1.00000			EMR15513
5355-	EMR15513	110301	3 0.00000	110302						EMR15523
5356-	EMR15523	110303	3-0.00000							
5357-	MPC	8155	4	-1.	110300	4	.0			EMR15514
5358-	EMR15514	110301	4 1.00000	110302						EMR15524
5359-	EMR15524	110303	4-1.00000							
5360-	MPC	8155	5	-1.	110300	5	1.00000			EMR15515

SORTED BULK DATA ECHO

1	2	3	4	5	6	7	8	9	10
C433									
3JUNT									
CMR15515	110301	5	0.0000	110302	5-1.00000				CMR15525
CMR15525	110303	5-0.00000							
MPC	6155	6	-1.	110300	6	.0			CMR15516
CMR15516	110301	6	1.00000	110302	6	0.00000			CMR15526
CMR15526	110303	6-1.00000							
MPC	8156	1	-1.	110300	1	1.00000			CMR15611
CMR15611	110301	1-0.38268	110302	1-0.70711					CMR15621
CMR15621	110303	1	0.92388						
MPC	8156	2	-1.	110300	2	.0			CMR15612
CMR15612	110301	2	0.92388	110302	2-0.70711				CMR15622
CMR15622	110303	2-0.38269							
MPC	8156	3	-1.	110300	3	1.00000			CMR15613
CMR15613	110301	3-0.38268	110302	3-0.70711					CMR15623
CMR15623	110303	3	0.92388						
MPC	8156	4	-1.	110300	4	.0			CMR15614
CMR15614	110301	4	0.92388	110302	4-0.70711				CMR15624
CMR15624	110303	4-0.38269							
MPC	8156	5	-1.	110300	5	1.00000			CMR15615
CMR15615	110301	5-0.38268	110302	5-0.70711					CMR15625
CMR15625	110303	5	0.92388						
MPC	8156	6	-1.	110300	6	.0			CMR15616
CMR15616	110301	6	0.92388	110302	6-0.70711				CMR15626
CMR15626	110303	6-0.38269							
MPC	8157	1	-1.	110300	1	1.00000			CMR15711
CMR15711	110301	1-0.70711	110302	1-0.00000					CMR15721
CMR15721	110303	1	0.70711						
MPC	8157	2	-1.	110300	2	.0			CMR15712
CMR15712	110301	2	0.70711	110302	2-1.00000				CMR15722
CMR15722	110303	2	0.70710						
MPC	8157	3	-1.	110300	3	1.00000			CMR15713
CMR15713	110301	3-0.70711	110302	3-0.00000					CMR15723
CMR15723	110303	3	0.70711						
MPC	8157	4	-1.	110300	4	.0			CMR15714
CMR15714	110301	4	0.70711	110302	4-1.00000				CMR15724
CMR15724	110303	4	0.70710						
MPC	8157	5	-1.	110300	5	1.00000			CMR15715
CMR15715	110301	5-0.70711	110302	5-0.00000					CMR15725
CMR15725	110303	5	0.70711						
MPC	8157	6	-1.	110300	6	.0			CMR15716
CMR15716	110301	6	0.70711	110302	6-1.00000				CMR15726
CMR15726	110303	6	0.70710						
MPC	8158	1	-1.	110300	1	1.00000			CMR15811
CMR15811	110301	1-0.92388	110302	1	0.70711				CMR15821
CMR15821	110303	1-0.38268							
MPC	8158	2	-1.	110300	2	.0			CMR15812
CMR15812	110301	2	0.38268	110302	2-0.70711				CMR15822
CMR15822	110303	2	0.92388						
MPC	8158	3	-1.	110300	3	1.00000			CMR15813
CMR15813	110301	3-0.92388	110302	3	0.70711				CMR15823
CMR15823	110303	3-0.38269							

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SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
6401-	MPC	1	8158	4	-1.	110300	4	.0			EM815814
6402-	EM815814		110301		4 0.38268	110302		4 -0.70711			EM815824
6403-	EM815824		110303		4 0.92388						
6404-	MPC	1	8158	5	-1.	110300	5	1.00000			EM815815
6405-	EM815815		110301		5 -0.92388	110302		5 0.70711			EM815825
6406-	EM815825		110303		5 -0.38268						
6407-	MPC	1	8158	6	-1.	110300	6	.0			EM815816
6408-	EM815816		110301		6 0.38268	110302		6 -0.70711			EM815826
6409-	EM815826		110303		6 0.92388						
6410-	MPC	1	8155	1	-1.	110300	1	1.00000			EM815911
6411-	EM815911		110301		1 -1.00000	110302		1 1.00000			EM815921
6412-	EM815921		110303		1 -1.00000						
6413-	MPC	1	8155	2	-1.	110300	2	.0			EM815912
6414-	EM815912		110301		2 0.00000	110302		2 -0.00000			EM815922
6415-	EM815922		110303		2 0.90000						
6416-	MPC	1	8155	3	-1.	110300	3	1.00000			EM815913
6417-	EM815913		110301		3 -1.00000	110302		3 1.00000			EM815923
6418-	EM815923		110303		3 -1.00000						
6419-	MPC	1	8155	4	-1.	110300	4	.0			EM815914
6420-	EM815914		110301		4 0.00000	110302		4 -0.00000			EM815924
6421-	EM815924		110303		4 0.00000						
6422-	MPC	1	8155	5	-1.	110300	5	1.00000			EM815915
6423-	EM815915		110301		5 -1.00000	110302		5 1.00000			EM815925
6424-	EM815925		110303		5 -1.00000						
6425-	MPC	1	8155	6	-1.	110300	6	.0			EM815916
6426-	EM815916		110301		6 0.00000	110302		6 -0.00000			EM815926
6427-	EM815926		110303		6 0.00000						
6428-	MPC	1	8170	1	-1.	110500	1	1.00500			EM817011
6429-	EM817011		110501		1 1.00000	110502		1 1.00000			EM817021
6430-	EM817021		110503		1 1.00000						
6431-	MPC	1	8170	2	-1.	110500	2	.0			EM817012
6432-	EM817012		110501		2 0.0	110502		2 0.0			EM817022
6433-	EM817022		110503		2 0.0						
6434-	MPC	1	8170	3	-1.	110500	3	1.00000			EM817013
6435-	EM817013		110501		3 1.00000	110502		3 1.00000			EM817023
6436-	EM817023		110503		3 1.00000						
6437-	MPC	1	8170	4	-1.	110500	4	.0			EM817014
6438-	EM817014		110501		4 0.0	110502		4 0.0			EM817024
6439-	EM817024		110503		4 0.0						
6440-	MPC	1	8170	5	-1.	110500	5	1.00000			EM817015
6441-	EM817015		110501		5 1.00000	110502		5 1.00000			EM817025
6442-	EM817025		110503		5 1.00000						
6443-	MPC	1	8170	6	-1.	110500	6	.0			EM817016
6444-	EM817016		110501		6 0.0	110502		6 0.0			EM817026
6445-	EM817026		110503		6 0.0						
6446-	MPC	1	8171	1	-1.	110500	1	1.00000			EM817111
6447-	EM817111		110501		1 0.92388	110502		1 0.70711			EM817121
6448-	EM817121		110503		1 0.38268						
6449-	MPC	1	8171	2	-1.	110500	2	.0			EM817112
6450-	EM817112		110501		2 0.38268	110502		2 0.70711			EM817122

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6490										
COUNT										
6491-	EM817122	110503	2	0.92388						
6492-	MPC	E171	3	-1.	110500	3	1.00000			EM817113
6493-	EM817113	110501	3	0.92388	110502			3	0.70711	EM817123
6494-	EM817123	110503	3	0.38268						
6495-	MPC	E171	4	-1.	110500	4	.0			EM817114
6496-	EM817114	110501	4	0.38268	110502			4	0.70711	EM817124
6497-	EM817124	110503	4	0.92388						
6498-	MPC	E171	5	-1.	110500	5	1.00000			EM817115
6499-	EM817115	110501	5	0.92388	110502			5	0.70711	EM817125
6500-	EM817125	110503	5	0.38268						
6501-	MPC	E171	6	-1.	110500	6	.0			EM817116
6502-	EM817116	110501	6	0.38268	110502			6	0.70711	EM817126
6503-	EM817126	110503	6	0.92388						
6504-	MPC	E172	1	-1.	110500	1	1.00000			EM817211
6505-	EM817211	110501	1	0.70711	110502			1	0.00000	EM817221
6506-	EM817221	110503	1	0.70711						
6507-	MPC	E172	2	-1.	110500	2	.6			EM817212
6508-	EM817212	110501	2	0.70711	110502			2	1.00000	EM817222
6509-	EM817222	110503	2	0.70711						
6510-	MPC	E172	3	-1.	110500	3	1.00000			EM817213
6511-	EM817213	110501	3	0.70711	110502			3	0.00000	EM817223
6512-	EM817223	110503	3	0.70711						
6513-	MPC	E172	4	-1.	110500	4	.0			EM817214
6514-	EM817214	110501	4	0.70711	110502			4	1.00000	EM817224
6515-	EM817224	110503	4	0.70711						
6516-	MPC	E172	5	-1.	110500	5	1.00000			EM817215
6517-	EM817215	110501	5	0.70711	110502			5	0.00000	EM817225
6518-	EM817225	110503	5	0.70711						
6519-	MPC	E172	6	-1.	110500	6	.0			EM817216
6520-	EM817216	110501	6	0.70711	110502			6	1.00000	EM817226
6521-	EM817226	110503	6	0.70711						
6522-	MPC	E172	1	-1.	110500	1	1.00000			EM817311
6523-	EM817311	110501	1	0.38268	110502			1	0.70711	EM817321
6524-	EM817321	110503	1	0.92388						
6525-	MPC	E173	2	-1.	110500	2	.0			EM817312
6526-	EM817312	110501	2	0.92388	110502			2	0.70711	EM817322
6527-	EM817322	110503	2	0.38268						
6528-	MPC	E173	3	-1.	110500	3	1.00000			EM817313
6529-	EM817313	110501	3	0.38268	110502			3	0.70711	EM817323
6530-	EM817323	110503	3	0.92388						
6531-	MPC	E173	4	-1.	110500	4	.0			EM817314
6532-	EM817314	110501	4	0.92388	110502			4	0.70711	EM817324
6533-	EM817324	110503	4	0.38268						
6534-	MPC	E173	5	-1.	110500	5	1.00000			EM817315
6535-	EM817315	110501	5	0.38268	110502			5	0.70711	EM817325
6536-	EM817325	110503	5	0.92388						
6537-	MPC	E173	6	-1.	110500	6	.0			EM817316
6538-	EM817316	110501	6	0.92388	110502			6	0.70711	EM817326
6539-	EM817326	110503	6	0.38268						
6540-	MPC	E174	1	-1.	110500	1	1.00000			EM817411

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6501-	EM817411	110501	1	0.00000	110502	1-1.00000				EM817421
6502-	EM817421	110503	1	0.00000						
6503-	MPC	8174	2	-1.	110500	2	0	0.00000		EM817412
6504-	EM817412	110501	2	1.00000	110502					EM817422
6505-	EM817422	110503	2	-1.00000						
6506-	MPC	8174	3	-1.	110500	3	1	0.00000		EM817413
6507-	EM817413	110501	3	0.00000	110502					EM817423
6508-	EM817423	110503	3	0.00000						
6509-	MPC	8174	4	-1.	110500	4	0	0.00000		EM817414
6510-	EM817414	110501	4	1.00000	110502					EM817424
6511-	EM817424	110503	4	-1.00000						
6512-	MPC	8174	5	-1.	110500	5	1	0.00000		EM817415
6513-	EM817415	110501	5	0.00000	110502					EM817425
6514-	EM817425	110503	5	0.00000						
6515-	MPC	8174	6	-1.	110500	6	0	0.00000		EM817416
6516-	EM817416	110501	6	1.00000	110502					EM817426
6517-	EM817426	110503	6	-1.00000						
6518-	MPC	8175	1	-1.	110500	1	1	0.00000		EM817511
6519-	EM817511	110501	1	0.38268	110502					EM817521
6520-	EM817521	110503	1	0.92388						
6521-	MPC	8175	2	-1.	110500	2	0	0.00000		EM817512
6522-	EM817512	110501	2	0.92388	110502					EM817522
6523-	EM817522	110503	2	-0.38269						
6524-	MPC	8175	3	-1.	110500	3	1	0.00000		EM817513
6525-	EM817513	110501	3	0.38268	110502					EM817523
6526-	EM817523	110503	3	0.92388						
6527-	MPC	8175	4	-1.	110500	4	0	0.00000		EM817514
6528-	EM817514	110501	4	0.92388	110502					EM817524
6529-	EM817524	110503	4	-0.38269						
6530-	MPC	8175	5	-1.	110500	5	1	0.00000		EM817515
6531-	EM817515	110501	5	0.38268	110502					EM817525
6532-	EM817525	110503	5	0.92388						
6533-	MPC	8175	6	-1.	110500	6	0	0.00000		EM817516
6534-	EM817516	110501	6	0.92388	110502					EM817526
6535-	EM817526	110503	6	-0.38269						
6536-	MPC	8176	1	-1.	110500	1	1	0.00000		EM817611
6537-	EM817611	110501	1	0.70711	110502					EM817621
6538-	EM817621	110503	1	0.70711						
6539-	MPC	8176	2	-1.	110500	2	0	0.00000		EM817612
6540-	EM817612	110501	2	0.70711	110502					EM817622
6541-	EM817622	110503	2	0.70710						
6542-	MPC	8176	3	-1.	110500	3	1	0.00000		EM817613
6543-	EM817613	110501	3	0.70711	110502					EM817623
6544-	EM817623	110503	3	0.70711						
6545-	MPC	8176	4	-1.	110500	4	0	0.00000		EM817614
6546-	EM817614	110501	4	0.70711	110502					EM817624
6547-	EM817624	110503	4	0.70710						
6548-	MPC	8176	5	-1.	110500	5	1	0.00000		EM817615
6549-	EM817615	110501	5	0.70711	110502					EM817625
6550-	EM817625	110503	5	0.70711						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6591-	MPC	8176	6		-1.	110500	6			
6592-	EM817616	110501			6 0.70711	110502				EM817616
6593-	EM817626	110503			6 0.70710					EM817626
6594-	MPC	8177	1		-1.	110500	1			
6595-	EM817711	110501			1-0.92388	110502				EM817711
6596-	EM817721	110503			1-0.38268					EM817721
6597-	MPC	8177	2		-1.	110500	2			
6598-	EM817712	110501			2 0.38268	110502				EM817712
6599-	EM817722	110503			2 0.92388					EM817722
6600-	MPC	8177	3		-1.	110500	3			
6601-	EM817713	110501			3-0.92388	110502				EM817713
6602-	EM817723	110503			3-0.38268					EM817723
6603-	MPC	8177	4		-1.	110500	4			
6604-	EM817714	110501			4 0.38268	110502				EM817714
6605-	EM817724	110503			4 0.92388					EM817724
6606-	MPC	8177	5		-1.	110500	5			
6607-	EM817715	110501			5-0.92388	110502				EM817715
6608-	EM817725	110503			5-0.38268					EM817725
6609-	MPC	8177	6		-1.	110500	6			
6610-	EM817716	110501			6 0.38268	110502				EM817716
6611-	EM817726	110503			6 0.92388					EM817726
6612-	MPC	8178	1		-1.	110500	1			
6613-	EM817811	110501			1-1.00000	110502				EM817811
6614-	EM817821	110503			1-1.00000					EM817821
6615-	MPC	8178	2		-1.	110500	2			
6616-	EM817812	110501			2 0.00000	110502				EM817812
6617-	EM817822	110503			2 0.00000					EM817822
6618-	MPC	8178	3		-1.	110500	3			
6619-	EM817813	110501			3-1.00000	110502				EM817813
6620-	EM817823	110503			3-1.00000					EM817823
6621-	MPC	8178	4		-1.	110500	4			
6622-	EM817814	110501			4 0.00000	110502				EM817814
6623-	EM817824	110503			4 0.00000					EM817824
6624-	MPC	8178	5		-1.	110500	5			
6625-	EM817815	110501			5-1.00000	110502				EM817815
6626-	EM817825	110503			5-1.00000					EM817825
6627-	MPC	8178	6		-1.	110500	6			
6628-	EM817816	110501			6 0.00000	110502				EM817816
6629-	EM817826	110503			6 0.00000					EM817826
6630-	MPC	8190	1		-1.	110600	1			
6631-	EM819011	110601			1 1.00000	110602				EM819011
6632-	EM819021	110603			1 1.00000					EM819021
6633-	MPC	8190	2		-1.	110600	2			
6634-	EM819012	110601			2 0.0	110602				EM819012
6635-	EM819022	110603			2 0.0					EM819022
6636-	MPC	8190	3		-1.	110600	3			
6637-	EM819013	110601			3 1.00000	110602				EM819013
6638-	EM819023	110603			3 1.00000					EM819023
6639-	MPC	8190	4		-1.	110600	4			
6640-	EM819014	110601			4 0.0	110602				EM819014
					4 0.0					EM819024

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CM819024	1	110603	4 0.0							
MPC	819C	5	110600	5	1.00000					CM819015
CM819015	1	110601	5	1.00000	110602	5	1.00000			CM819025
CM819025	1	110603	6	1.00000						
MPC	819C	6	110600	6	.0					CM819016
CM819016	1	110601	6	0.0	110602	6	0.0			CM819026
CM819026	1	110603	6	0.0						
MPC	8191	1	110600	1	1.00000					CM819111
CM819111	1	110601	1	0.92388	110602	1	0.70711			CM819121
CM819121	1	110603	2	0.38268						
MPC	8191	2	110600	2	.0					CM819112
CM819112	1	110601	2	0.38268	110602	2	0.70711			CM819122
CM819122	1	110603	2	0.92388						
MPC	8191	3	110600	3	1.00000					CM819113
CM819113	1	110601	3	0.92388	110602	3	0.70711			CM819123
CM819123	1	110603	3	0.38268						
MPC	8191	4	110600	4	.0					CM819114
CM819114	1	110601	4	0.38268	110602	4	0.70711			CM819124
CM819124	1	110603	4	0.92388						
MPC	8191	5	110600	5	1.00000					CM819115
CM819115	1	110601	5	0.92388	110602	5	0.70711			CM819125
CM819125	1	110603	5	0.38268						
MPC	8191	6	110600	6	.0					CM819116
CM819116	1	110601	6	0.38268	110602	6	0.70711			CM819126
CM819126	1	110603	6	0.92388						
MPC	8192	1	110600	1	1.00000					CM819211
CM819211	1	110601	1	0.70711	110602	1	0.00000			CM819221
CM819221	1	110603	1	0.70711						
MPC	8192	2	110600	2	.0					CM819212
CM819212	1	110601	2	0.70711	110602	2	1.00000			CM819222
CM819222	1	110603	2	0.70711						
MPC	8192	3	110600	3	1.00000					CM819213
CM819213	1	110601	3	0.70711	110602	3	0.00000			CM819223
CM819223	1	110603	3	0.70711						
MPC	8192	4	110600	4	.0					CM819214
CM819214	1	110601	4	0.70711	110602	4	1.00000			CM819224
CM819224	1	110603	4	0.70711						
MPC	8192	5	110600	5	1.00000					CM819215
CM819215	1	110601	5	0.70711	110602	5	0.00000			CM819225
CM819225	1	110603	5	0.70711						
MPC	8192	6	110600	6	.0					CM819216
CM819216	1	110601	6	0.70711	110602	6	1.00000			CM819226
CM819226	1	110603	6	0.70711						
MPC	8192	1	110600	1	1.00000					CM819311
CM819311	1	110601	1	0.38268	110602	1	0.70711			CM819321
CM819321	1	110603	1	0.92388						
MPC	8192	2	110600	2	.0					CM819312
CM819312	1	110601	2	0.92388	110602	2	0.70711			CM819322
CM819322	1	110603	2	0.38268						
MPC	8192	3	110600	3	1.00000					CM819313

EXTERNAL TANK NO. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

Volume II

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
6651-	EM819313	110601	110601	3 0.38268	110602	3-0.70711				EM819323
6652-	EM819323	110603	110603	3-0.92388						
6653-	MPC	8192	4	-1.	110600	4	.0			EM819314
6654-	EM819314	110601	110601	4 0.92388	110602	4 0.70711				EM819324
6655-	EM819324	110603	110603	4-0.38268						
6656-	MPC	8192	5	-1.	110600	5	1.00000			EM819315
6657-	EM819315	110601	110601	5 0.38268	110602	5-0.70711				EM819325
6658-	EM819325	110603	110603	5-0.92388						
6659-	MPC	8192	6	-1.	110600	6	.0			EM819316
6660-	EM819316	110601	110601	6 0.92388	110602	6 0.70711				EM819326
6661-	EM819326	110603	110603	6-0.38268						
6662-	MPC	8194	1	-1.	110600	1	1.00000			EM819411
6663-	EM819411	110601	110601	1 0.00000	110602	1-1.00000				EM819421
6664-	EM819421	110603	110603	1-0.00000						
6665-	MPC	8194	2	-1.	110600	2	.0			EM819412
6666-	EM819412	110601	110601	2 1.00000	110602	2 0.00000				EM819422
6667-	EM819422	110603	110603	2-1.00000						
6668-	MPC	8194	3	-1.	110600	3	1.00000			EM819413
6669-	EM819413	110601	110601	3 0.00000	110602	3-1.00000				EM819423
6670-	EM819423	110603	110603	3-0.00000						
6671-	MPC	8194	4	-1.	110600	4	.0			EM819414
6672-	EM819414	110601	110601	4 1.00000	110602	4 0.00000				EM819424
6673-	EM819424	110603	110603	4-1.00000						
6674-	MPC	8194	5	-1.	110600	5	1.00000			EM819415
6675-	EM819415	110601	110601	5 0.00000	110602	5-1.00000				EM819425
6676-	EM819425	110603	110603	5-0.00000						
6677-	MPC	8194	6	-1.	110600	6	.0			EM819416
6678-	EM819416	110601	110601	6 1.00000	110602	6 0.00000				EM819426
6679-	EM819426	110603	110603	6-1.00000						
6680-	MPC	8195	1	-1.	110600	1	1.00000			EM819511
6681-	EM819511	110601	110601	1-0.38268	110602	1-0.70711				EM819521
6682-	EM819521	110603	110603	1 0.92388						
6683-	MPC	8195	2	-1.	110600	2	.0			EM819512
6684-	EM819512	110601	110601	2 0.92388	110602	2-0.70711				EM819522
6685-	EM819522	110603	110603	2-0.38268						
6686-	MPC	8195	3	-1.	110600	3	1.00000			EM819513
6687-	EM819513	110601	110601	3-0.38268	110602	3-0.70711				EM819523
6688-	EM819523	110603	110603	3 0.92388						
6689-	MPC	8195	4	-1.	110600	4	.0			EM819514
6690-	EM819514	110601	110601	4 0.92388	110602	4-0.70711				EM819524
6691-	EM819524	110603	110603	4-0.38268						
6692-	MPC	8195	5	-1.	110600	5	1.00000			EM819515
6693-	EM819515	110601	110601	5-0.38268	110602	5-0.70711				EM819525
6694-	EM819525	110603	110603	5 0.92388						
6695-	MPC	8195	6	-1.	110600	6	.0			EM819516
6696-	EM819516	110601	110601	6 0.92388	110602	6-0.70711				EM819526
6697-	EM819526	110603	110603	6-0.38268						
6698-	MPC	8196	1	-1.	110600	1	1.00000			EM819611
6699-	EM819611	110601	110601	1-0.70711	110602	1-0.00000				EM819621
6700-	EM819621	110603	110603	1 0.70711						

ORIGINAL PAGE IS
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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6701-	MPC	819C	2	4	-1.	110600	2	0		EM819612
6702-	EM819612	110601			2 0.70711	110602		-1.00000		EM819622
6703-	EM819622	110603			2 0.70710					
6704-	MPC	819C	3	4	-1.	110600	3	1.00000		EM819613
6705-	EM819613	110601			3-0.70711	110602		3-0.00000		EM819623
6706-	EM819623	110603			3 0.70711					
6707-	MPC	819C	4	4	-1.	110600	4	0		EM819614
6708-	EM819614	110601			4 0.70711	110602		4-1.00000		EM819624
6709-	EM819624	110603			4 0.70710					
6710-	MPC	819C	5	4	-1.	110600	5	1.00000		EM819615
6711-	EM819615	110601			5-0.70711	110602		5-0.00000		EM819625
6712-	EM819625	110603			5 0.70711					
6713-	MPC	819C	6	4	-1.	110600	6	0		EM819616
6714-	EM819616	110601			6 0.70711	110602		6-1.00000		EM819626
6715-	EM819626	110603			6 0.70710					
6716-	MPC	8197	1	1	-1.	110600	1	1.00000		EM819711
6717-	EM819711	110601			1-0.92388	110602		1 0.70711		EM819721
6718-	EM819721	110603			1-0.38268					
6719-	MPC	8197	2	2	-1.	110600	2	0		EM819712
6720-	EM819712	110601			2 0.38268	110602		2-0.70711		EM819722
6721-	EM819722	110603			2 0.92388					
6722-	MPC	8197	3	3	-1.	110600	3	1.00000		EM819713
6723-	EM819713	110601			3-0.92388	110602		3 0.70711		EM819723
6724-	EM819723	110603			3-0.38268					
6725-	MPC	8197	4	4	-1.	110600	4	0		EM819714
6726-	EM819714	110601			4 0.38268	110602		4-0.70711		EM819724
6727-	EM819724	110603			4 0.92388					
6728-	MPC	8197	5	5	-1.	110600	5	1.00000		EM819715
6729-	EM819715	110601			5-0.92388	110602		5 0.70711		EM819725
6730-	EM819725	110603			5-0.38268					
6731-	MPC	8197	6	6	-1.	110600	6	0		EM819716
6732-	EM819716	110601			6 0.38268	110602		6-0.70711		EM819726
6733-	EM819726	110603			6 0.92388					
6734-	MPC	819C	1	1	-1.	110600	1	1.00000		EM819811
6735-	EM819811	110601			1-1.00000	110602		1 1.00000		EM819821
6736-	EM819821	110603			1-1.00000					
6737-	MPC	819C	2	2	-1.	110600	2	0		EM819812
6738-	EM819812	110601			2 0.00000	110602		2-0.00000		EM819822
6739-	EM819822	110603			2 0.00000					
6740-	MPC	819C	3	3	-1.	110600	3	1.00000		EM819813
6741-	EM819813	110601			3-1.00000	110602		3 1.00000		EM819823
6742-	EM819823	110603			3-1.00000					
6743-	MPC	819C	4	4	-1.	110600	4	0		EM819814
6744-	EM819814	110601			4 0.00000	110602		4-0.00000		EM819824
6745-	EM819824	110603			4 0.00000					
6746-	MPC	819C	5	5	-1.	110600	5	1.00000		EM819815
6747-	EM819815	110601			5-1.00000	110602		5 1.00000		EM819825
6748-	EM819825	110603			5-1.00000					
6749-	MPC	819C	6	6	-1.	110600	6	0		EM819816
6750-	EM819816	110601			6 0.00000	110602		6-0.00000		EM819826

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

CARD	1	2	3	4	5	6	7	8	9	10
6751-	EMR21026	110603	6	0.00000						
6752-	MPC	8205	3	1.	8210	1	-1.			
6753-	MPC	8210	1	-1.	110700	1	1.00000		EMR21011	
6754-	EMR21011	110701	1	1.00000	110702	1	1.00000		EMR21021	
6755-	EMR21021	110703	1	1.00000						
6755-	MPC	8210	2	-1.	110700	2	.0		EMR21012	
6757-	EMR21012	110701	2	0.0	110702	2	0.0		EMR21022	
6758-	EMR21022	110703	2	0.0						
6759-	MPC	8210	3	-1.	110700	3	1.00000		EMR21013	
6759-	EMR21013	110701	3	1.00000	110702	3	1.00000		EMR21023	
6761-	EMR21023	110703	3	1.00000						
6762-	MPC	8210	4	-1.	110700	4	.0		EMR21014	
6763-	EMR21014	110701	4	0.0	110702	4	0.0		EMR21024	
6764-	EMR21024	110703	4	0.0						
6765-	MPC	8210	5	-1.	110700	5	1.00000		EMR21015	
6765-	EMR21015	110701	5	1.00000	110702	5	1.00000		EMR21025	
6767-	EMR21025	110703	5	1.00000						
6768-	MPC	8210	6	-1.	110700	6	.0		EMR21016	
6769-	EMR21016	110701	6	0.0	110702	6	0.0		EMR21026	
6770-	EMR21026	110703	6	0.0						
6771-	MPC	8211	1	-1.	110700	1	1.00000		EMR21111	
6772-	EMR21111	110701	1	0.92389	110702	1	0.70711		EMR21121	
6773-	EMR21121	110703	1	0.78268						
6774-	MPC	8211	2	-1.	110700	2	.0		EMR21112	
6775-	EMR21112	110701	2	0.78268	110702	2	0.70711		EMR21122	
6775-	EMR21122	110703	2	0.92389						
6777-	MPC	8211	3	-1.	110700	3	1.00000		EMR21113	
6778-	EMR21113	110701	3	0.92389	110702	3	0.70711		EMR21123	
6779-	EMR21123	110703	3	0.78268						
6780-	MPC	8211	4	-1.	110700	4	.0		EMR21114	
6781-	EMR21114	110701	4	0.78268	110702	4	0.70711		EMR21124	
6782-	EMR21124	110703	4	0.92389						
6783-	MPC	8211	5	-1.	110700	5	1.00000		EMR21115	
6784-	EMR21115	110701	5	0.92389	110702	5	0.70711		EMR21125	
6785-	EMR21125	110703	5	0.78268						
6785-	MPC	8211	6	-1.	110700	6	.0		EMR21116	
6787-	EMR21116	110701	6	0.78268	110702	6	0.70711		EMR21126	
6788-	EMR21126	110703	6	0.92389						
6789-	MPC	8212	1	-1.	110700	1	1.00000		EMR21211	
6790-	EMR21211	110701	1	0.70711	110702	1	0.00000		EMR21221	
6791-	EMR21221	110703	1	0.70711						
6792-	MPC	8212	2	-1.	110700	2	.0		EMR21212	
6793-	EMR21212	110701	2	0.70711	110702	2	1.00000		EMR21222	
6794-	EMR21222	110703	2	0.70711						
6795-	MPC	8212	3	-1.	110700	3	1.00000		EMR21213	
6795-	EMR21213	110701	3	0.70711	110702	3	0.00000		EMR21223	
6797-	EMR21223	110703	3	0.70711						
6798-	MPC	8212	4	-1.	110700	4	.0		EMR21214	
6799-	EMR21214	110701	4	0.70711	110702	4	1.00000		EMR21224	
6900-	EMR21224	110703	4	0.70711						

EXTERNAL TANK 4. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT										
5891-	MPC	1	8212	5	-1.	110700	5	1.00000	9	54821215
5892-	54821215		110701		5 0.70711	110702		5 0.00000		54821225
5893-	54821225		110703		5-0.70711					
5894-	MPC	1	8212	6	-1.	110700	6	.0		54821216
5895-	54821216		110701		6 0.70711	110702		6 1.00000		54821226
5896-	54821226		110703		6 0.70711					
5897-	MPC	1	8213	1	-1.	110700	1	1.00000		54821311
5898-	54821311		110701		1 0.38268	110702		1-0.70711		54821321
5899-	54821321		110703		1-0.92388					
5900-	MPC	1	8213	2	-1.	110700	2	.0		54821312
5901-	54821312		110701		2 0.92388	110702		2 0.70711		54821322
5902-	54821322		110703		2-0.38268					
5903-	MPC	1	8213	3	-1.	110700	3	1.00000		54821313
5904-	54821313		110701		3 0.38268	110702		3-0.70711		54821323
5905-	54821323		110703		3-0.92388					
5906-	MPC	1	8213	4	-1.	110700	4	.0		54821314
5907-	54821314		110701		4 0.92388	110702		4 0.70711		54821324
5908-	54821324		110703		4-0.38268					
5909-	MPC	1	8213	5	-1.	110700	5	1.00000		54821315
5910-	54821315		110701		5 0.38268	110702		5-0.70711		54821325
5911-	54821325		110703		5-0.92388					
5912-	MPC	1	8213	6	-1.	110700	6	.0		54821316
5913-	54821316		110701		6 0.92388	110702		6 0.70711		54821326
5914-	54821326		110703		6-0.38268					
5915-	MPC	1	8214	1	-1.	110700	1	1.00000		54821411
5916-	54821411		110701		1 0.00000	110702		1-1.00000		54821421
5917-	54821421		110703		1-0.00000					
5918-	MPC	1	8214	2	-1.	110700	2	.0		54821412
5919-	54821412		110701		2 1.00000	110702		2 0.00000		54821422
5920-	54821422		110703		2-1.00000					
5921-	MPC	1	8214	3	-1.	110700	3	1.00000		54821413
5922-	54821413		110701		3 0.00000	110702		3-1.00000		54821423
5923-	54821423		110703		3-0.00000					
5924-	MPC	1	8214	4	-1.	110700	4	.0		54821414
5925-	54821414		110701		4 1.00000	110702		4 0.00000		54821424
5926-	54821424		110703		4-1.00000					
5927-	MPC	1	8214	5	-1.	110700	5	1.00000		54821415
5928-	54821415		110701		5 0.00000	110702		5-1.00000		54821425
5929-	54821425		110703		5-0.00000					
5930-	MPC	1	8214	6	-1.	110700	6	.0		54821416
5931-	54821416		110701		6 1.00000	110702		6 0.00000		54821426
5932-	54821426		110703		6-1.00000					
5933-	MPC	1	8215	1	-1.	110700	1	1.00000		54821511
5934-	54821511		110701		1 0.38268	110702		1-0.70711		54821521
5935-	54821521		110703		1 0.92388					
5936-	MPC	1	8215	2	-1.	110700	2	.0		54821512
5937-	54821512		110701		2 0.92388	110702		2-0.70711		54821522
5938-	54821522		110703		2-0.38268					
5939-	MPC	1	8215	3	-1.	110700	3	1.00000		54821513
5940-	54821513		110701		3-0.38268	110702		3-0.70711		54821523

SORTED BULK DATA E C M D

CARD	1	2	3	4	5	6	7	8	9	10
6851-	CMR21523	1	110703	3	0.92388					
6852-	MPC		8215	-1.	110700	4	.0			CMR21514
6853-	CMR21514	1	110701	4	0.92388	110702	4-0.70711			CMR21524
6854-	CMR21524	1	110703	4-0.38269						
6855-	MPC		8215	-1.	110700	5	1.00000			CMR21515
6856-	CMR21515	1	110701	5-0.38269	110702		5-0.70711			CMR21525
6857-	CMR21525	1	110703	5	0.92388					
6858-	MPC		8215	-1.	110700	6	.0			CMR21516
6859-	CMR21516	1	110701	6	0.52388	110702	6-0.70711			CMR21526
6860-	CMR21526	1	110703	6-0.38269						
6861-	MPC		8215	-1.	110700	1	1.00000			CMR21611
6862-	CMR21611	1	110701	1-0.70711	110702		1-0.00000			CMR21621
6863-	CMR21621	1	110703	1	0.70711					
6864-	MPC		8215	-1.	110700	2	.0			CMR21612
6865-	CMR21612	1	110701	2	0.70711	110702	2-1.00000			CMR21622
6866-	CMR21622	1	110703	2	0.70710					
6867-	MPC		8215	-1.	110700	3	1.00000			CMR21613
6868-	CMR21613	1	110701	3-0.70711	110702		1-0.00000			CMR21623
6869-	CMR21623	1	110703	3	0.70711					
6870-	MPC		8215	-1.	110700	4	.0			CMR21614
6871-	CMR21614	1	110701	4	0.70711	110702	4-1.00000			CMR21624
6872-	CMR21624	1	110703	4	0.70710					
6873-	MPC		8215	-1.	110700	5	1.00000			CMR21615
6874-	CMR21615	1	110701	5-0.70711	110702		5-0.00000			CMR21625
6875-	CMR21625	1	110703	5	0.70711					
6876-	MPC		8215	-1.	110700	6	.0			CMR21616
6877-	CMR21616	1	110701	6	0.70711	110702	6-1.00000			CMR21626
6878-	CMR21626	1	110703	6	0.70710					
6879-	MPC		8217	-1.	110700	1	1.00000			CMR21711
6880-	CMR21711	1	110701	1-0.92388	110702		1	0.70711		CMR21721
6881-	CMR21721	1	110703	1-0.38268						
6882-	MPC		8217	-1.	110700	2	.0			CMR21712
6883-	CMR21712	1	110701	2	0.38268	110702	2-0.70711			CMR21722
6884-	CMR21722	1	110703	2	0.92388					
6885-	MPC		8217	-1.	110700	3	1.00000			CMR21713
6886-	CMR21713	1	110701	3-0.92388	110702		3	0.70711		CMR21723
6887-	CMR21723	1	110703	3-0.38268						
6888-	MPC		8217	-1.	110700	4	.0			CMR21714
6889-	CMR21714	1	110701	4	0.38268	110702	4-0.70711			CMR21724
6890-	CMR21724	1	110703	4	0.92388					
6891-	MPC		8217	-1.	110700	5	1.00000			CMR21715
6892-	CMR21715	1	110701	5-0.92388	110702		5	0.70711		CMR21725
6893-	CMR21725	1	110703	5-0.38268						
6894-	MPC		8217	-1.	110700	6	.0			CMR21716
6895-	CMR21716	1	110701	6	0.38268	110702	6-0.70711			CMR21726
6896-	CMR21726	1	110703	6	0.92388					
6897-	MPC		8215	-1.	110700	1	1.00000			CMR21811
6898-	CMR21811	1	110701	1-1.00000	110702		1	1.00000		CMR21821
6899-	CMR21821	1	110703	1-1.00000						
6900-	MPC		8215	-1.	110700	2	.0			CMR21812

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
6901- EM821812	1	2	110701	4	2 0.00000	110702	7	2-0.00000	9	EM821822
6902- EM821822	1	2	110703	4	2 0.00000					
6903- MPC	1	821E	3		-1.	110700	3	1.00000		EM821813
6904- EM821813	1	110701	3		3-1.00000	110702		3 1.00000		EM821823
6905- EM821823	1	110703	3		3-1.00000					
6906- MPC	1	821E	4		-1.	110700	4	4-0.00000		EM821814
6907- EM821814	1	110701	4		4 0.00000	110702		4-0.00000		EM821824
6908- EM821824	1	110703	4		4 0.00000					
6909- MPC	1	821E	5		-1.	110700	5	1.00000		EM821815
6910- EM821815	1	110701	5		5-1.00000	110702		5 1.00000		EM821825
6911- EM821825	1	110703	5		5-1.00000					
6912- MPC	1	821E	6		-1.	110700	6	6-0.00000		EM821816
6913- EM821816	1	110701	6		6 0.00000	110702		6-0.00000		EM821826
6914- EM821826	1	110703	6		6 0.00000					
6915- MPC	1	8230	1		-1.	110800	1	1.00000		EM823011
6916- EM823011	1	110801	1		1 1.00000	110802		1 1.00000		EM823021
6917- EM823021	1	110803	1		1 1.00000					
6918- MPC	1	8230	2		-1.	110800	2	2 0.0		EM823012
6919- EM823012	1	110801	2		2 0.0	110802		2 0.0		EM823022
6920- EM823022	1	110803	2		2 0.0					
6921- MPC	1	823E	3		-1.	110800	3	1.00000		EM823013
6922- EM823013	1	110801	3		3 1.00000	110802		3 1.00000		EM823023
6923- EM823023	1	110803	3		3 1.00000					
6924- MPC	1	823E	4		-1.	110800	4	4 0.0		EM823014
6925- EM823014	1	110801	4		4 0.0	110802		4 0.0		EM823024
6926- EM823024	1	110803	4		4 0.0					
6927- MPC	1	8230	5		-1.	110800	5	1.00000		EM823015
6928- EM823015	1	110801	5		5 1.00000	110802		5 1.00000		EM823025
6929- EM823025	1	110803	5		5 1.00000					
6930- MPC	1	823E	6		-1.	110800	6	6 0.0		EM823016
6931- EM823016	1	110801	6		6 0.0	110802		6 0.0		EM823026
6932- EM823026	1	110803	6		6 0.0					
6933- MPC	1	8231	1		-1.	110800	1	1.00000		EM823111
6934- EM823111	1	110801	1		1 0.02368	110802		1 0.70711		EM823121
6935- EM823121	1	110803	1		1 0.38268					
6936- MPC	1	8231	2		-1.	110800	2	2 0.70711		EM823112
6937- EM823112	1	110801	2		2 0.38268	110802		2 0.70711		EM823122
6938- EM823122	1	110803	2		2 0.92368					
6939- MPC	1	8231	3		-1.	110800	3	1.00000		EM823113
6940- EM823113	1	110801	3		3 0.92368	110802		3 0.70711		EM823123
6941- EM823123	1	110803	3		3 0.38268					
6942- MPC	1	8231	4		-1.	110800	4	4 0.70711		EM823114
6943- EM823114	1	110801	4		4 0.38268	110802		4 0.70711		EM823124
6944- EM823124	1	110803	4		4 0.92368					
6945- MPC	1	8231	5		-1.	110800	5	1.00000		EM823115
6946- EM823115	1	110801	5		5 0.92368	110802		5 0.70711		EM823125
6947- EM823125	1	110803	5		5 0.38268					
6948- MPC	1	8231	6		-1.	110800	6	6 0.70711		EM823116
6949- EM823116	1	110801	6		6 0.38268	110802		6 0.70711		EM823126
6950- EM823126	1	110803	6		6 0.92368					

EXTERNAL TANK W. FLUID
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S O R T E D B U L K D A T A E C H O

CARD	1	2	3	4	5	6	7	8	9	10
6981- MPC	1	8232	1	-1.	110800	1	1.00000			10
6982- CMB23211			110801	1	0.70711	110802	1	0.00000		10
6983- CMB23221			110803	1	0.70711			1	0.00000	
6984- MPC	1	8232	2	-1.	110800	2	.0			10
6985- CMB23212			110801	2	0.70711	110802	2	1.00000		10
6986- CMB23222			110803	2	0.70711					10
6987- MPC	1	8232	3	-1.	110800	3	1.00000			10
6988- CMB23213			110801	3	0.70711	110802	3	0.00000		10
6989- CMB23223			110803	3	0.70711			3	0.00000	10
6990- MPC	1	8232	4	-1.	110800	4	.0			10
6991- CMB23214			110801	4	0.70711	110802	4	1.00000		10
6992- CMB23224			110803	4	0.70711					10
6993- MPC	1	8232	5	-1.	110800	5	1.00000			10
6994- CMB23215			110801	5	0.70711	110802	5	0.00000		10
6995- CMB23225			110803	5	0.70711			5	0.00000	10
6996- MPC	1	8232	6	-1.	110800	6	.0			10
6997- CMB23216			110801	6	0.70711	110802	6	1.00000		10
6998- CMB23226			110803	6	0.70711					10
6999- MPC	1	8232	1	-1.	110800	1	1.00000			10
7000- CMB23311			110801	1	0.38268	110802	1	0.00000		10
7001- CMB23321			110803	1	0.92388			1	0.70711	10
7002- MPC	1	8232	2	-1.	110800	2	.0			10
7003- CMB23312			110801	2	0.92388	110802	2	0.70711		10
7004- CMB23322			110803	2	0.38268					10
7005- MPC	1	8232	3	-1.	110800	3	1.00000			10
7006- CMB23313			110801	3	0.38268	110802	3	0.70711		10
7007- CMB23323			110803	3	0.92388					10
7008- MPC	1	8232	4	-1.	110800	4	.0			10
7009- CMB23314			110801	4	0.92388	110802	4	0.70711		10
7010- CMB23324			110803	4	0.38268					10
7011- MPC	1	8232	5	-1.	110800	5	1.00000			10
7012- CMB23315			110801	5	0.38268	110802	5	0.70711		10
7013- CMB23325			110803	5	0.92388					10
7014- MPC	1	8232	6	-1.	110800	6	.0			10
7015- CMB23316			110801	6	0.92388	110802	6	0.70711		10
7016- CMB23326			110803	6	0.38268					10
7017- MPC	1	8234	1	-1.	110800	1	1.00000			10
7018- CMB23411			110801	1	0.00000	110802	1	1.00000		10
7019- CMB23421			110803	1	0.00000			1	1.00000	10
7020- MPC	1	8234	2	-1.	110800	2	.0			10
7021- CMB23412			110801	2	1.00000	110802	2	0.00000		10
7022- CMB23422			110803	2	1.00000					10
7023- MPC	1	8234	3	-1.	110800	3	1.00000			10
7024- CMB23413			110801	3	0.00000	110802	3	1.00000		10
7025- CMB23423			110803	3	0.00000			3	1.00000	10
7026- MPC	1	8234	4	-1.	110800	4	.0			10
7027- CMB23414			110801	4	1.00000	110802	4	0.00000		10
7028- CMB23424			110803	4	1.00000					10
7029- MPC	1	8234	5	-1.	110800	5	1.00000			10
7030- CMB23415			110801	5	0.00000	110802	5	1.00000		10

CARD COUNT	1 ..	2 ..	3 ..	4 ..	5 ..	6 ..	7 ..	8 ..	9 ..	10 ..
7001-	EM823425	1	110803	6	5-0.00000					
7002-	MPC		8234		-1.	110800	6	.0		EM823416
7003-	EM823416	1	110801	6	6 1.00000	110802		6 6.00000		EM823426
7004-	EM823426	1	110803		6-1.00000					
7005-	MPC		8235	1	-1.	110800	1	1.00000		EM823511
7006-	EM823511	1	110801	1	1-0.38268	110802		1-0.70711		EM823521
7007-	EM823521	1	110803	2	1 0.92388			.0		EM823512
7008-	MPC		8235	2	-1.	110800	2	2-0.70711		EM823522
7009-	EM823512	1	110801	2	2 0.92388	110802				
7010-	EM823522	1	110803	3	2-0.38269					
7011-	MPC		8235	3	-1.	110800	3	1.00000		EM823513
7012-	EM823513	1	110801	3	3-0.38268	110802		3-0.70711		EM823523
7013-	EM823523	1	110803	4	3 0.92388			.0		EM823514
7014-	MPC		8235	4	-1.	110800	4	4-0.70711		EM823524
7015-	EM823514	1	110801	4	4 0.92388	110802				
7016-	EM823524	1	110803	5	4-0.38269			1.00000		EM823515
7017-	MPC		8235	5	-1.	110800	5	5-0.70711		EM823525
7018-	EM823515	1	110801	5	5-0.38268	110802				
7019-	EM823525	1	110803	6	5 0.92388			.0		EM823516
7020-	MPC		8235	6	-1.	110800	6	6-0.70711		EM823526
7021-	EM823516	1	110801	6	6 0.92388	110802				
7022-	EM823526	1	110803	1	6-0.38269			1.00000		EM823611
7023-	MPC		8236	1	-1.	110800	1	1-0.00000		EM823621
7024-	EM823611	1	110801	1	1-0.70711	110802				
7025-	EM823621	1	110803	2	1 0.70711			.0		EM823612
7026-	MPC		8236	2	-1.	110800	2	2-1.00000		EM823622
7027-	EM823612	1	110801	2	2 0.70711	110802				
7028-	EM823622	1	110803	3	2 0.70710			1.00000		EM823613
7029-	MPC		8236	3	-1.	110800	3	3-0.00000		EM823623
7030-	EM823613	1	110801	3	3-0.70711	110802				
7031-	EM823623	1	110803	4	3 0.70711			.0		EM823614
7032-	MPC		8236	4	-1.	110800	4	4-1.00000		EM823624
7033-	EM823614	1	110801	4	4 0.70711	110802				
7034-	EM823624	1	110803	5	4 0.70710			1.00000		EM823615
7035-	MPC		8236	5	-1.	110800	5	5-0.00000		EM823625
7036-	EM823615	1	110801	5	5-0.70711	110802				
7037-	EM823625	1	110803	6	5 0.70711			.0		EM823616
7038-	MPC		8236	6	-1.	110800	6	6-1.00000		EM823626
7039-	EM823616	1	110801	6	6 0.70711	110802				
7040-	EM823626	1	110803	1	6 0.70710			1.00000		EM823711
7041-	MPC		8237	1	-1.	110800	1	1 0.70711		EM823721
7042-	EM823711	1	110801	1	1-0.92389	110802				
7043-	EM823721	1	110803	2	1-0.38268			.0		EM823712
7044-	MPC		8237	2	-1.	110800	2	2-0.70711		EM823722
7045-	EM823712	1	110801	2	2 0.38268	110802				
7046-	EM823722	1	110803	3	2 0.92388			1.00000		EM823713
7047-	MPC		8237	3	-1.	110800	3	3 0.70711		EM823723
7048-	EM823713	1	110801	3	3-0.92388	110802				
7049-	EM823723	1	110803	4	3-0.38268			.0		EM823714
7050-	MPC		8237	4	-1.	110800	4			

EXTERNAL TANK W. FLUID
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CARD	1	2	3	4	5	6	7	8	9	10
7351- CMR23714	1	110801	4	0.38268	110802	4	0.70711	9	0	CMR23724
7352- CMR23724	1	110803	4	0.92388						
7353- MPC	1	8237	5	-1.	110800	5	1.00000			CMR23715
7354- CMR23715	1	110801	5	0.92389	110802	5	0.70711			CMR23725
7355- CMR23725	1	110803	5	0.38268						
7356- MPC	1	8237	6	-1.	110800	6	0			CMR23716
7357- CMR23716	1	110801	6	0.38268	110802	6	0.70711			CMR23726
7358- CMR23726	1	110803	6	0.92388						
7359- MPC	1	8238	1	-1.	110800	1	1.00000			CMR23811
7360- CMR23811	1	110901	1	1.00000	110802	1	1.00000			CMR23821
7361- CMR23821	1	110803	1	1.00000						
7362- MPC	1	8238	2	-1.	110800	2	0			CMR23812
7363- CMR23812	1	110801	2	0.00000	110802	2	0.00000			CMR23822
7364- CMR23822	1	110803	2	0.00000						
7365- MPC	1	8238	3	-1.	110800	3	1.00000			CMR23813
7366- CMR23813	1	110801	3	1.00000	110802	3	1.00000			CMR23823
7367- CMR23823	1	110803	3	1.00000						
7368- MPC	1	8238	4	-1.	110800	4	0			CMR23814
7369- CMR23814	1	110801	4	0.00000	110802	4	0.00000			CMR23824
7370- CMR23824	1	110803	4	0.00000						
7371- MPC	1	8238	5	-1.	110800	5	1.00000			CMR23815
7372- CMR23815	1	110801	5	1.00000	110802	5	1.00000			CMR23825
7373- CMR23825	1	110803	5	1.00000						
7374- MPC	1	8238	6	-1.	110800	6	0			CMR23816
7375- CMR23816	1	110801	6	0.00000	110802	6	0.00000			CMR23826
7376- CMR23826	1	110903	6	0.00000						
7377- MPC	1	8250	1	-1.	110900	1	1.00000			CMR25011
7378- CMR25011	1	110901	1	1.00000	110902	1	1.00000			CMR25021
7379- CMR25021	1	110903	1	1.00000						
7380- MPC	1	8250	2	-1.	110900	2	0			CMR25012
7381- CMR25012	1	110901	2	0	110902	2	0			CMR25022
7382- CMR25022	1	110903	2	0						
7383- MPC	1	8250	3	-1.	110900	3	1.00000			CMR25013
7384- CMR25013	1	110901	3	1.00000	110902	3	1.00000			CMR25023
7385- CMR25023	1	110903	3	1.00000						
7386- MPC	1	8250	4	-1.	110900	4	0			CMR25014
7387- CMR25014	1	110901	4	0	110902	4	0			CMR25024
7388- CMR25024	1	110903	4	0						
7389- MPC	1	8250	5	-1.	110900	5	1.00000			CMR25015
7390- CMR25015	1	110901	5	1.00000	110902	5	1.00000			CMR25025
7391- CMR25025	1	110903	5	1.00000						
7392- MPC	1	8250	6	-1.	110900	6	0			CMR25016
7393- CMR25016	1	110901	6	0	110902	6	0			CMR25026
7394- CMR25026	1	110903	6	0						
7395- MPC	1	8251	1	-1.	110900	1	1.00000			CMR25111
7396- CMR25111	1	110901	1	0.92388	110902	1	0.70711			CMR25121
7397- CMR25121	1	110903	1	0.38268						
7398- MPC	1	8251	2	-1.	110900	2	0			CMR25112
7399- CMR25112	1	110901	2	0.78268	110902	2	0.70711			CMR25122
7400- CMR25122	1	110903	2	0.92388						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
7101- MPC	1	8251	3	-1.	110900	3	1.00000			EM825113
7102- EM825123		110901		3 0.92388	110902		3 0.70711			EM825123
7103- MPC	1	8251	4	-1.	110900	4	.0			EM825114
7104- EM825114		110901		4 0.38268	110902		4 0.70711			EM825124
7105- EM825124		110903		4 0.92388						
7106- MPC	1	8251	5	-1.	110900	5	1.00000			EM825115
7107- EM825115		110901		5 0.92388	110902		5 0.70711			EM825125
7108- EM825125		110903		5 0.38268						
7109- MPC	1	8251	6	-1.	110900	6	.0			EM825116
7110- EM825116		110901		6 0.38268	110902		6 0.70711			EM825126
7111- EM825126		110903		6 0.92388						
7112- MPC	1	8252	1	-1.	110900	1	1.00000			EM825211
7113- EM825211		110901		1 0.70711	110902		1 0.00000			EM825221
7114- EM825221		110903		1-0.70711						
7115- MPC	1	8252	2	-1.	110900	2	.0			EM825212
7116- EM825212		110901		2 0.70711	110902		2 1.00000			EM825222
7117- EM825222		110903		2 0.70711						
7118- MPC	1	8252	3	-1.	110900	3	1.00000			EM825213
7119- EM825213		110901		3 0.70711	110902		3 0.00000			EM825223
7120- EM825223		110903		3-0.70711						
7121- MPC	1	8252	4	-1.	110900	4	.0			EM825214
7122- EM825214		110901		4 0.70711	110902		4 1.00000			EM825224
7123- EM825224		110903		4 0.70711						
7124- MPC	1	8252	5	-1.	110900	5	1.00000			EM825215
7125- EM825215		110901		5 0.70711	110902		5 0.00000			EM825225
7126- EM825225		110903		5-0.70711						
7127- MPC	1	8252	6	-1.	110900	6	.0			EM825216
7128- EM825216		110901		6 0.70711	110902		6 1.00000			EM825226
7129- EM825226		110903		6 0.70711						
7130- MPC	1	8252	1	-1.	110900	1	1.00000			EM825311
7131- EM825311		110901		1 0.38268	110902		1-0.70711			EM825321
7132- EM825321		110903		1-0.92388						
7133- MPC	1	8252	2	-1.	110900	2	.0			EM825312
7134- EM825312		110901		2 0.92388	110902		2 0.70711			EM825322
7135- EM825322		110903		2-0.38268						
7136- MPC	1	8252	3	-1.	110900	3	1.00000			EM825313
7137- EM825313		110901		3 0.38268	110902		3-0.70711			EM825323
7138- EM825323		110903		3-0.92388						
7139- MPC	1	8252	4	-1.	110900	4	.0			EM825314
7140- EM825314		110901		4 0.92388	110902		4 0.70711			EM825324
7141- EM825324		110903		4-0.38268						
7142- MPC	1	8252	5	-1.	110900	5	1.00000			EM825315
7143- EM825315		110901		5 0.38268	110902		5-0.70711			EM825325
7144- EM825325		110903		5-0.92388						
7145- MPC	1	8252	6	-1.	110900	6	.0			EM825316
7146- EM825316		110901		6 0.92388	110902		6 0.70711			EM825326
7147- EM825326		110903		6-0.38268						
7148- MPC	1	8254	1	-1.	110900	1	1.00000			EM825411
7149- EM825411		110901		1 0.00000	110902		1-1.00000			EM825421
7150- EM825421										

S O R T E D B U L K D A T A E C H D

CARD	1	2	3	4	5	6	7	8	9	10
7151-	EM825421	110903	1-0.00000							
7152-	MPC	8254	2	110900	2	.0			EM825412	
7153-	EM825412	110901	2	1.00000	110902	2	0.00000		EM825422	
7154-	EM825422	110903	3	2-1.00000						
7155-	MPC	8254	3	-1.	110900	3	1.00000		EM825413	
7155-	EM825413	110901	3	0.00000	110902	3	-1.00000		EM825423	
7157-	EM825423	110903	4	3-0.00000						
7158-	MPC	8254	4	-1.	110900	4	.0		EM825414	
7159-	EM825414	110901	4	1.00000	110902	4	0.00000		EM825424	
7160-	EM825424	110903	5	4-1.00000						
7161-	MPC	8254	5	-1.	110900	5	1.00000		EM825415	
7162-	EM825415	110901	5	0.00000	110902	5	-1.00000		EM825425	
7163-	EM825425	110903	6	5-0.00000						
7164-	MPC	8254	6	-1.	110900	6	.0		EM825416	
7165-	EM825416	110901	6	1.00000	110902	6	0.00000		EM825426	
7165-	EM825426	110903	7	6-1.00000						
7167-	MPC	8255	1	-1.	110900	1	1.00000		EM825511	
7168-	EM825511	110901	1	-0.38268	110902	1	-0.70711		EM825521	
7169-	EM825521	110903	2	1 0.92388						
7170-	MPC	8255	2	-1.	110900	2	.0		EM825512	
7171-	EM825512	110901	2	0.92388	110902	2	-0.70711		EM825522	
7172-	EM825522	110903	3	2-0.38269						
7173-	MPC	8255	3	-1.	110900	3	1.00000		EM825513	
7174-	EM825513	110901	3	3-0.38268	110902	3	-0.70711		EM825523	
7175-	EM825523	110903	4	3 0.92388						
7176-	MPC	8255	4	-1.	110900	4	.0		EM825514	
7177-	EM825514	110901	4	0.92388	110902	4	-0.70711		EM825524	
7178-	EM825524	110903	5	4-0.38269						
7179-	MPC	8255	5	-1.	110900	5	1.00000		EM825515	
7180-	EM825515	110901	5	5-0.38268	110902	5	-0.70711		EM825525	
7181-	EM825525	110903	6	5 0.92388						
7182-	MPC	8255	6	-1.	110900	6	.0		EM825516	
7183-	EM825516	110901	6	0.92388	110902	6	-0.70711		EM825526	
7184-	EM825526	110903	7	6-0.38269						
7185-	MPC	8255	1	-1.	110900	1	1.00000		EM825611	
7186-	EM825611	110901	1	-0.70711	110902	1	-0.00000		EM825621	
7187-	EM825621	110903	2	1 0.70711						
7188-	MPC	8255	2	-1.	110900	2	.0		EM825612	
7189-	EM825612	110901	2	0.70711	110902	2	-1.00000		EM825622	
7190-	EM825622	110903	3	2 0.70710						
7191-	MPC	8255	3	-1.	110900	3	1.00000		EM825613	
7192-	EM825613	110901	3	-0.70711	110902	3	-0.00000		EM825623	
7193-	EM825623	110903	4	3 0.70711						
7194-	MPC	8255	4	-1.	110900	4	.0		EM825614	
7195-	EM825614	110901	4	0.70711	110902	4	-1.00000		EM825624	
7196-	EM825624	110903	5	4 0.70710						
7197-	MPC	8255	5	-1.	110900	5	1.00000		EM825615	
7198-	EM825615	110901	5	-0.70711	110902	5	-0.00000		EM825625	
7199-	EM825625	110903	6	5 0.70711						
7200-	MPC	8255	6	-1.	110900	6	.0		EM825616	

ORIGINAL PAGE IS
OF POOR QUALITY

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
7201- CMR25616	110901	6 0.70711	110902	6-1.00000						CMR25626
7202- CMR25626	110903	6 0.70710								
7203- MPC	8257 1	-1.	110900 1	1.00000						CMR25711.
7204- CMR25711	110901	1-0.92388	110902	1 0.70711						CMR25721
7205- CMR25721	110903	1-0.38268								
7206- MPC	8257 2	-1.	110900 2	.0						CMR25712
7207- CMR25712	110901	2 0.38268	110902	2-0.70711						CMR25722
7208- CMR25722	110903	2 0.92388								
7209- MPC	8257 3	-1.	110900 3	1.00000						CMR25713
7210- CMR25713	110901	3-0.92388	110902	3 0.70711						CMR25723
7211- CMR25723	110903	3-0.38268								
7212- MPC	8257 4	-1.	110900 4	.0						CMR25714
7213- CMR25714	110901	4 0.38268	110902	4-0.70711						CMR25724
7214- CMR25724	110903	4 0.92388								
7215- MPC	8257 5	-1.	110900 5	1.00000						CMR25715
7216- CMR25715	110901	5-0.92388	110902	5 0.70711						CMR25725
7217- CMR25725	110903	5-0.38268								
7218- MPC	8257 6	-1.	110900 6	.0						CMR25716
7219- CMR25716	110901	6 0.38268	110902	6-0.70711						CMR25726
7220- CMR25726	110903	6 0.92388								
7221- MPC	825E 1	-1.	110900 1	1.00000						CMR25811
7222- CMR25811	110901	1-1.00000	110902	1 1.00000						CMR25821
7223- CMR25821	110903	1-1.00000								
7224- MPC	825E 2	-1.	110900 2	.0						CMR25812
7225- CMR25812	110901	2 0.00000	110902	2-0.00000						CMR25822
7226- CMR25822	110903	2 0.00000								
7227- MPC	825E 3	-1.	110900 3	1.00000						CMR25813
7228- CMR25813	110901	3-1.00000	110902	3 1.00000						CMR25823
7229- CMR25823	110903	3-1.00000								
7230- MPC	825E 4	-1.	110900 4	.0						CMR25814
7231- CMR25814	110901	4 0.00000	110902	4-0.00000						CMR25824
7232- CMR25824	110903	4 0.00000								
7233- MPC	825E 5	-1.	110900 5	1.00000						CMR25815
7234- CMR25815	110901	5-1.00000	110902	5 1.00000						CMR25825
7235- CMR25825	110903	5-1.00000								
7236- MPC	825E 6	-1.	110900 6	.0						CMR25816
7237- CMR25816	110901	6 0.00000	110902	6-0.00000						CMR25826
7238- CMR25826	110903	6 0.00000								
7239- MPC	8270 1	-1.	111000 1	1.00000						CMR27011
7240- CMR27011	111001	1 1.00000	111002	1 1.00000						CMR27021
7241- CMR27021	111003	1 1.00000								
7242- MPC	8270 2	-1.	111000 2	.0						CMR27012
7243- CMR27012	111001	2 0.0	111002	2 0.0						CMR27022
7244- CMR27022	111003	2 0.0								
7245- MPC	8270 3	-1.	111000 3	1.00000						CMR27013
7246- CMR27013	111001	3 1.00000	111002	3 1.00000						CMR27023
7247- CMR27023	111003	3 1.00000								
7248- MPC	8270 4	-1.	111000 4	.0						CMR27014
7249- CMR27014	111001	4 0.0	111002	4 0.0						CMR27024
7250- CMR27024	111003	4 0.0								

SORTED BULK DATA ECHO

CARD	COUNT	1	2	3	4	5	6	7	8	9	10
7231-	1	8270	5	-1.	111000	5	1.00000	5	1.00000	9	24827018
7252-	1	111001	5	5	1.00000	111002	5	1.00000	5	1.00000	24827025
7253-	1	111003	6	5	1.00000	6	0.0	6	0.0	6	24827016
7254-	1	8270	6	-1.	111000	6	0.0	6	0.0	6	24827026
7255-	1	111001	6	6	0.0	111002	6	0.0	6	0.0	24827016
7256-	1	111003	6	6	0.0	111002	6	0.0	6	0.0	24827026
7257-	1	8271	1	-1.	111000	1	1.00000	1	1.00000	1	24827111
7258-	1	111001	1	1	0.92388	111002	1	0.70711	1	0.70711	24827121
7259-	1	111003	1	1	0.38268	111002	1	0.70711	1	0.70711	24827121
7260-	1	8271	2	-1.	111000	2	0.0	2	0.0	2	24827112
7261-	1	111001	2	2	0.38268	111002	2	0.70711	2	0.70711	24827122
7262-	1	111003	2	2	0.92388	111002	2	0.70711	2	0.70711	24827122
7263-	1	8271	3	-1.	111000	3	1.00000	3	1.00000	3	24827113
7264-	1	111001	3	3	0.92388	111002	3	0.70711	3	0.70711	24827123
7265-	1	111003	3	3	0.38268	111002	3	0.70711	3	0.70711	24827123
7266-	1	8271	4	-1.	111000	4	0.0	4	0.0	4	24827114
7267-	1	111001	4	4	0.38268	111002	4	0.70711	4	0.70711	24827124
7268-	1	111003	4	4	0.92388	111002	4	0.70711	4	0.70711	24827124
7269-	1	8271	5	-1.	111000	5	1.00000	5	1.00000	5	24827115
7270-	1	111001	5	5	0.92388	111002	5	0.70711	5	0.70711	24827125
7271-	1	111003	5	5	0.38268	111002	5	0.70711	5	0.70711	24827125
7272-	1	8271	6	-1.	111000	6	0.0	6	0.0	6	24827116
7273-	1	111001	6	6	0.38268	111002	6	0.70711	6	0.70711	24827126
7274-	1	111003	6	6	0.92388	111002	6	0.70711	6	0.70711	24827126
7275-	1	8271	5	-1.	111000	5	1.00000	5	1.00000	5	24827115
7276-	1	111001	5	5	0.92388	111002	5	0.70711	5	0.70711	24827125
7277-	1	111003	5	5	0.38268	111002	5	0.70711	5	0.70711	24827125
7278-	1	8271	6	-1.	111000	6	0.0	6	0.0	6	24827116
7279-	1	111001	6	6	0.38268	111002	6	0.70711	6	0.70711	24827126
7280-	1	111003	6	6	0.92388	111002	6	0.70711	6	0.70711	24827126
7281-	1	8272	1	-1.	111000	1	1.00000	1	1.00000	1	24827211
7282-	1	111001	1	1	0.70711	111002	1	0.00000	1	0.00000	24827221
7283-	1	111003	1	1	0.70711	111002	1	0.00000	1	0.00000	24827221
7284-	1	8272	2	-1.	111000	2	0.0	2	0.0	2	24827212
7285-	1	111001	2	2	0.70711	111002	2	1.00000	2	1.00000	24827222
7286-	1	111003	2	2	0.70711	111002	2	1.00000	2	1.00000	24827222
7287-	1	8272	3	-1.	111000	3	1.00000	3	1.00000	3	24827213
7288-	1	111001	3	3	0.70711	111002	3	0.00000	3	0.00000	24827223
7289-	1	111003	3	3	0.70711	111002	3	0.00000	3	0.00000	24827223
7290-	1	8272	4	-1.	111000	4	0.0	4	0.0	4	24827214
7291-	1	111001	4	4	0.70711	111002	4	1.00000	4	1.00000	24827224
7292-	1	111003	4	4	0.70711	111002	4	1.00000	4	1.00000	24827224
7293-	1	8272	5	-1.	111000	5	1.00000	5	1.00000	5	24827215
7294-	1	111001	5	5	0.70711	111002	5	0.00000	5	0.00000	24827225
7295-	1	111003	5	5	0.70711	111002	5	0.00000	5	0.00000	24827225
7296-	1	8272	6	-1.	111000	6	0.0	6	0.0	6	24827216
7297-	1	111001	6	6	0.70711	111002	6	1.00000	6	1.00000	24827226
7298-	1	111003	6	6	0.70711	111002	6	1.00000	6	1.00000	24827226
7299-	1	8272	1	-1.	111000	1	1.00000	1	1.00000	1	24827311
7300-	1	111001	1	1	0.38268	111002	1	0.70711	1	0.70711	24827321
7301-	1	111003	1	1	0.92388	111002	1	0.70711	1	0.70711	24827321
7302-	1	8272	2	-1.	111000	2	0.0	2	0.0	2	24827312
7303-	1	111001	2	2	0.92388	111002	2	0.70711	2	0.70711	24827322
7304-	1	111003	2	2	0.38268	111002	2	0.70711	2	0.70711	24827322
7305-	1	8272	3	-1.	111000	3	1.00000	3	1.00000	3	24827313
7306-	1	111001	3	3	0.38268	111002	3	0.70711	3	0.70711	24827323
7307-	1	111003	3	3	0.38268	111002	3	0.70711	3	0.70711	24827323

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
GMVT										
7301-	CM827323	1	111003	4	3-0.92388					
7302-	MPC	8273	4	-1.	111000	4	.0			CM827314
7303-	CM827314	1	111001	4	0.92388	111002				CM827324
7304-	CM827324	1	111003	5	4-0.38268					
7305-	MPC	8273	5	-1.	111000	5	1.00000			CM827315
7305-	CM827315	1	111001	5	0.38268	111002				CM827325
7307-	CM827325	1	111003	5	5-0.92388					
7308-	MPC	8273	6	-1.	111000	6	.0			CM827316
7307-	CM827316	1	111001	6	0.92388	111002				CM827326
7310-	CM827326	1	111003	6	6-0.38268					
7311-	MPC	8274	1	-1.	111000	1	1.00000			CM827411
7312-	CM827411	1	111001	1	0.00000	111002				CM827421
7313-	CM827421	1	111003	2	1-0.00000					
7314-	MPC	8274	2	-1.	111000	2	.0			CM827412
7315-	CM827412	1	111001	2	1.00000	111002				CM827422
7316-	CM827422	1	111003	3	2-1.00000					
7317-	MPC	8274	3	-1.	111000	3	1.00000			CM827413
7318-	CM827413	1	111001	3	0.00000	111002				CM827423
7319-	CM827423	1	111003	4	3-0.00000					
7320-	MPC	8274	4	-1.	111000	4	.0			CM827414
7321-	CM827414	1	111001	4	1.00000	111002				CM827424
7322-	CM827424	1	111003	5	4-1.00000					
7323-	MPC	8274	5	-1.	111000	5	1.00000			CM827415
7324-	CM827415	1	111001	5	0.00000	111002				CM827425
7325-	CM827425	1	111003	6	5-0.00000					
7326-	MPC	8274	6	-1.	111000	6	.0			CM827416
7327-	CM827416	1	111001	6	1.00000	111002				CM827426
7329-	CM827426	1	111003	1	6-1.00000					
7329-	MPC	8275	1	-1.	111000	1	1.00000			CM827511
7330-	CM827511	1	111001	1	1-0.38268	111002				CM827521
7331-	CM827521	1	111003	2	1	0.92388				
7332-	MPC	8275	2	-1.	111000	2	.0			CM827512
7333-	CM827512	1	111001	2	0.92388	111002				CM827522
7334-	CM827522	1	111003	3	2-0.38269					
7335-	MPC	8275	3	-1.	111000	3	1.00000			CM827513
7335-	CM827513	1	111001	3	3-0.38268	111002				CM827523
7337-	CM827523	1	111003	4	3	0.92388				
7339-	MPC	8275	4	-1.	111000	4	.0			CM827514
7339-	CM827514	1	111001	4	0.92388	111002				CM827524
7340-	CM827524	1	111003	5	4-0.38269					
7341-	MPC	8275	5	-1.	111000	5	1.00000			CM827515
7342-	CM827515	1	111001	5	5-0.38268	111002				CM827525
7343-	CM827525	1	111003	6	5	0.92388				
7344-	MPC	8275	6	-1.	111000	6	.0			CM827516
7345-	CM827516	1	111001	6	6	0.92388	111002			CM827526
7346-	CM827526	1	111003	1	6-0.38269					
7347-	MPC	8276	1	-1.	111000	1	1.00000			CM827611
7347-	CM827611	1	111001	1	1-0.70711	111002				CM827621
7348-	CM827621	1	111003	2	1	0.70711				
7350-	MPC	8276	2	-1.	111000	2	.0			CM827612

SORTED BULK DATA ECHD

CARD	1	2	3	4	5	6	7	8	9	10
7351-	1	2	3	4	5	6	7	8	9	10
EM827612	111001	2 0.70711	111002					2-1.00000		EM827622
7352-	111003	2 0.70710								
7353-	8276 3	-1.	111000 3					1.00000		EM827613
7354-	111001	3-0.70711	111002					3-0.00000		EM827623
7355-	111003	3 0.70711								
7356-	8276 4	-1.	111000 4					.0		EM827614
7357-	111001	4 0.70711	111002					4-1.00000		EM827624
7358-	111003	4 0.70710								
7359-	8276 5	-1.	111000 5					1.00000		EM827615
7360-	111001	5-0.70711	111002					5-0.00000		EM827625
7361-	111003	5 0.70711								
7362-	8276 6	-1.	111000 6					.0		EM827616
7363-	111001	6 0.70711	111002					6-1.00000		EM827626
7364-	111003	6 0.70710								
7365-	8277 1	-1.	111000 1					1.00000		EM827711
7366-	111001	1-0.92388	111002					1 0.70711		EM827721
7367-	111003	1-0.38268								
7368-	8277 2	-1.	111000 2					.0		EM827712
7369-	111001	2 0.38268	111002					2-0.70711		EM827722
7370-	111003	2 0.92388								
7371-	8277 3	-1.	111000 3					1.00000		EM827713
7372-	111001	3-0.92388	111002					3 0.70711		EM827723
7373-	111003	3-0.38268								
7374-	8277 4	-1.	111000 4					.0		EM827714
7375-	111001	4 0.38268	111002					4-0.70711		EM827724
7376-	111003	4 0.92388								
7377-	8277 5	-1.	111000 5					1.00000		EM827715
7378-	111001	5-0.92388	111002					5 0.70711		EM827725
7379-	111003	5-0.38268								
7380-	8277 6	-1.	111000 6					.0		EM827716
7381-	111001	6 0.38268	111002					6-0.70711		EM827726
7382-	111003	6 0.92388								
7383-	8278 1	-1.	111000 1					1.00000		EM827811
7384-	111001	1-1.00000	111002					1 1.00000		EM827821
7385-	111003	1-1.00000								
7386-	8278 2	-1.	111000 2					.0		EM827812
7387-	111001	2 0.00000	111002					2-0.00000		EM827822
7388-	111003	2 0.00000								
7389-	8278 3	-1.	111000 3					1.00000		EM827813
7390-	111001	3-1.00000	111002					3 1.00000		EM827823
7391-	111003	3-1.00000								
7392-	8278 4	-1.	111000 4					.0		EM827814
7393-	111001	4 0.00000	111002					4-0.00000		EM827824
7394-	111003	4 0.00000								
7395-	8278 5	-1.	111000 5					1.00000		EM827815
7396-	111001	5-1.00000	111002					5 1.00000		EM827825
7397-	111003	5-1.00000								
7398-	8278 6	-1.	111000 6					.0		EM827816
7399-	111001	6 0.00000	111002					6-0.00000		EM827826
7400-	111003	6 0.00000								

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SORTED BULK DATA ECHD

CARD	1	2	3	4	5	6	7	8	9	10
7401-	MPG	8290	1	1	-1.	111100	1	1.00000		EM829011
7402-	EM829011		111101							EM829021
7403-	EM829021		111103							
7404-	MPG	8290	2	2	-1.	111100	2	.0		EM829012
7405-	EM829012		111101							EM829022
7406-	EM829022		111103							
7407-	MPG	8290	3	3	-1.	111100	3	1.00000		EM829013
7408-	EM829013		111101							EM829023
7409-	EM829023		111103							
7410-	MPG	8290	4	4	-1.	111100	4	.0		EM829014
7411-	EM829014		111101							EM829024
7412-	EM829024		111103							
7413-	MPG	8290	5	5	-1.	111100	5	1.00000		EM829015
7414-	EM829015		111101							EM829025
7415-	EM829025		111103							
7416-	MPG	8290	6	6	-1.	111100	6	.0		EM829016
7417-	EM829016		111101							EM829026
7418-	EM829026		111103							
7419-	MPG	8291	1	1	-1.	111100	1	1.00000		EM829111
7420-	EM829111		111101							EM829121
7421-	EM829121		111103							
7422-	MPG	8291	2	2	-1.	111100	2	.0		EM829112
7423-	EM829112		111101							EM829122
7424-	EM829122		111103							
7425-	MPG	8291	3	3	-1.	111100	3	1.00000		EM829113
7426-	EM829113		111101							EM829123
7427-	EM829123		111103							
7428-	MPG	8291	4	4	-1.	111100	4	.0		EM829114
7429-	EM829114		111101							EM829124
7430-	EM829124		111103							
7431-	MPG	8291	5	5	-1.	111100	5	1.00000		EM829115
7432-	EM829115		111101							EM829125
7433-	EM829125		111103							
7434-	MPG	8291	6	6	-1.	111100	6	.0		EM829116
7435-	EM829116		111101							EM829126
7436-	EM829126		111103							
7437-	MPG	8292	1	1	-1.	111100	1	1.00000		EM829211
7438-	EM829211		111101							EM829221
7439-	EM829221		111103							
7440-	MPG	8292	2	2	-1.	111100	2	.0		EM829212
7441-	EM829212		111101							EM829222
7442-	EM829222		111103							
7443-	MPG	8292	3	3	-1.	111100	3	1.00000		EM829213
7444-	EM829213		111101							EM829223
7445-	EM829223		111103							
7446-	MPG	8292	4	4	-1.	111100	4	.0		EM829214
7447-	EM829214		111101							EM829224
7448-	EM829224		111103							
7449-	MPG	8292	5	5	-1.	111100	5	1.00000		EM829215
7450-	EM829215		111101							EM829225

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
7451- CM829225	1	8292	111103	5-0.70711						CM829216
7452- MPC	1			-1.	111100	6	.0			CM829226
7453- CM829216	1		111101	6 0.70711	111102		6 1.00000			
7454- CM829226	1		111103	6 0.70711						
7455- MPC	1	8292	111101	-1.	111100	1	1.00000			CM829311
7456- CM829311	1		111101	1 0.38268	111102		1-0.70711			CM829321
7457- MPC	1		111103	1-0.92388						
7458- CM829312	1	8292	111101	-1.	111100	2	.0			CM829312
7459- MPC	1		111101	2 0.92388	111102		2 0.70711			CM829322
7460- CM829322	1		111103	2-0.38268						
7461- MPC	1	8292	111101	-1.	111100	3	1.00000			CM829313
7462- CM829313	1		111101	3 0.38268	111102		3-0.70711			CM829323
7463- CM829323	1		111103	3-0.92388						
7464- MPC	1	8292	111101	-1.	111100	4	.0			CM829314
7465- CM829314	1		111101	4 0.92388	111102		4 0.70711			CM829324
7466- CM829324	1		111103	4-0.38268						
7467- MPC	1	8292	111101	-1.	111100	5	1.00000			CM829315
7468- CM829315	1		111101	5 0.38268	111102		5-0.70711			CM829325
7469- CM829325	1		111103	5-0.92388						
7470- MPC	1	8292	111101	-1.	111100	6	.0			CM829316
7471- CM829316	1		111101	6 0.92388	111102		6 0.70711			CM829326
7472- CM829326	1		111103	6-0.38268						
7473- MPC	1	8294	111101	-1.	111100	1	1.00000			CM829411
7474- CM829411	1		111101	1 0.00000	111102		1-1.00000			CM829421
7475- CM829421	1		111103	1-0.00000						
7476- MPC	1	8294	111101	-1.	111100	2	.0			CM829412
7477- CM829412	1		111101	2 1.00000	111102		2 0.00000			CM829422
7478- CM829422	1		111103	2-1.00000						
7479- MPC	1	8294	111101	-1.	111100	3	1.00000			CM829413
7480- CM829413	1		111101	3 0.00000	111102		3-1.00000			CM829423
7481- CM829423	1		111103	3-0.00000						
7482- MPC	1	8294	111101	-1.	111100	4	.0			CM829414
7483- CM829414	1		111101	4 1.00000	111102		4 0.00000			CM829424
7484- CM829424	1		111103	4-1.00000						
7485- MPC	1	8294	111101	-1.	111100	5	1.00000			CM829415
7486- CM829415	1		111101	5 0.00000	111102		5-1.00000			CM829425
7487- CM829425	1		111103	5-0.00000						
7488- MPC	1	8294	111101	-1.	111100	6	.0			CM829416
7489- CM829416	1		111101	6 1.00000	111102		6 0.00000			CM829426
7490- CM829426	1		111103	6-1.00000						
7491- MPC	1	8295	111101	-1.	111100	1	1.00000			CM829511
7492- CM829511	1		111101	1-0.38268	111102		1-0.70711			CM829521
7493- CM829521	1		111103	1 0.92388						
7494- MPC	1	8295	111101	-1.	111100	2	.0			CM829512
7495- CM829512	1		111101	2 0.92388	111102		2-0.70711			CM829522
7496- CM829522	1		111103	2-0.38268						
7497- MPC	1	8295	111101	-1.	111100	3	1.00000			CM829513
7498- CM829513	1		111101	3-0.38268	111102		3-0.70711			CM829523
7499- CM829523	1		111103	3 0.92388						
7500- MPC	1	8295	111101	-1.	111100	4	.0			CM829514

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT										
7501-	CM829514	111101	111101	4 0.92388	111102	4-0.70711				CM829524
7502-	CM829524	111103	4-0.38269							
7503-	MPC	8295	5	-1.	111100	5	1.00000			CM829515
7504-	CM829515	111101	5-0.38268	111102	5-0.70711					CM829525
7505-	CM829525	111103	5 0.92388							
7506-	MPC	8296	6	-1.	111100	6	.0			CM829516
7507-	CM829516	111101	6 0.92388	111102	6-0.70711					CM829526
7508-	CM829526	111103	6-0.38269							
7509-	MPC	8296	1	-1.	111100	1	1.00000			CM829611
7510-	CM829611	111101	1-0.70711	111102	1-0.00000					CM829621
7511-	CM829621	111103	1 0.70711							
7512-	MPC	8296	2	-1.	111100	2	.0			CM829612
7513-	CM829612	111101	2 0.70711	111102	2-1.00000					CM829622
7514-	CM829622	111103	2 0.70710							
7515-	MPC	8296	3	-1.	111100	3	1.00000			CM829613
7516-	CM829613	111101	3-0.70711	111102	3-0.00000					CM829623
7517-	CM829623	111103	3 0.70711							
7518-	MPC	8296	4	-1.	111100	4	.0			CM829614
7519-	CM829614	111101	4 0.70711	111102	4-1.00000					CM829624
7520-	CM829624	111103	4 0.70710							
7521-	MPC	8296	5	-1.	111100	5	1.00000			CM829615
7522-	CM829615	111101	5-0.70711	111102	5-0.00000					CM829625
7523-	CM829625	111103	5 0.70711							
7524-	MPC	8296	6	-1.	111100	6	.0			CM829616
7525-	CM829616	111101	6 0.70711	111102	6-1.00000					CM829626
7526-	CM829626	111103	6 0.70710							
7527-	MPC	8297	1	-1.	111100	1	1.00000			CM829711
7528-	CM829711	111101	1-0.92388	111102	1 0.70711					CM829721
7529-	CM829721	111103	1-0.38268							
7530-	MPC	8297	2	-1.	111100	2	.0			CM829712
7531-	CM829712	111101	2 0.38268	111102	2-0.70711					CM829722
7532-	CM829722	111103	2 0.92388							
7533-	MPC	8297	3	-1.	111100	3	1.00000			CM829713
7534-	CM829713	111101	3-0.92388	111102	3 0.70711					CM829723
7535-	CM829723	111103	3-0.38268							
7536-	MPC	8297	4	-1.	111100	4	.0			CM829714
7537-	CM829714	111101	4 0.38268	111102	4-0.70711					CM829724
7538-	CM829724	111103	4 0.92388							
7539-	MPC	8297	5	-1.	111100	5	1.00000			CM829715
7540-	CM829715	111101	5-0.92388	111102	5 0.70711					CM829725
7541-	CM829725	111103	5-0.38268							
7542-	MPC	8297	6	-1.	111100	6	.0			CM829716
7543-	CM829716	111101	6 0.38268	111102	6-0.70711					CM829726
7544-	CM829726	111103	6 0.92388							
7545-	MPC	8297	1	-1.	111100	1	1.00000			CM829811
7546-	CM829811	111101	1-1.00000	111102	1 1.00000					CM829821
7547-	CM829821	111103	1-1.00000							
7548-	MPC	8297	2	-1.	111100	2	.0			CM829812
7549-	CM829812	111101	2 0.00000	111102	2-0.00000					CM829822
7550-	CM829822	111103	2 0.00000							

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
7551-	7551-	1	8298	3	-1.	111100	3	1.00000		C4829813
7552-	C4829813		111101		3-1.00000	111102		3 1.00000		C4829823
7553-	C4829823		111103		3-1.00000					
7554-	MPC	1	8298	4	-1.	111100	4	.0		C4829814
7555-	C4829814		111101		4 0.00000	111102		4-0.00000		C4829824
7556-	C4829824		111103		4 0.00000					
7557-	MPC	1	8298	5	-1.	111100	5	1.00000		C4829815
7558-	C4829815		111101		5-1.00000	111102		5 1.00000		C4829825
7559-	C4829825		111103		5-1.00000					
7560-	MPC	1	8298	6	-1.	111100	6	.0		C4829816
7561-	C4829816		111101		6 0.00000	111102		6-0.00000		C4829826
7562-	C4829826		111103		6 0.00000					
7563-	MPC	1	8299	1	1.	8294	3	-1.		
7564-	MPC	1	8299	3	1.	8294	2	1.		
7565-	MPC	1	8310	1	-1.	111200	1	1.00000		C4831011
7566-	C4831011		111201		1 1.00000	111202		1 1.00000		C4831021
7567-	C4831021		111203		1 1.00000					
7568-	MPC	1	8310	2	-1.	111200	2	.0		C4831012
7569-	C4831012		111201		2 0.0	111202		2 0.0		C4831022
7570-	C4831022		111203		2 0.0					
7571-	MPC	1	8310	3	-1.	111200	3	1.00000		C4831013
7572-	C4831013		111201		3 1.00000	111202		3 1.00000		C4831023
7573-	C4831023		111203		3 1.00000					
7574-	MPC	1	8310	4	-1.	111200	4	.0		C4831014
7575-	C4831014		111201		4 0.0	111202		4 0.0		C4831024
7576-	C4831024		111203		4 0.0					
7577-	MPC	1	8310	5	-1.	111200	5	1.00000		C4831015
7578-	C4831015		111201		5 1.00000	111202		5 1.00000		C4831025
7579-	C4831025		111203		5 1.00000					
7580-	MPC	1	8310	6	-1.	111200	6	.0		C4831016
7581-	C4831016		111201		6 0.0	111202		6 0.0		C4831026
7582-	C4831026		111203		6 0.0					
7583-	MPC	1	8311	1	-1.	111200	1	1.00000		C4831111
7584-	C4831111		111201		1 0.92388	111202		1 0.70711		C4831121
7585-	C4831121		111203		1 0.38268					
7586-	MPC	1	8311	2	-1.	111200	2	.0		C4831112
7587-	C4831112		111201		2 0.38268	111202		2 0.70711		C4831122
7588-	C4831122		111203		2 0.92388					
7589-	MPC	1	8311	3	-1.	111200	3	1.00000		C4831113
7590-	C4831113		111201		3 0.92388	111202		3 0.70711		C4831123
7591-	C4831123		111203		3 0.38268					
7592-	MPC	1	8311	4	-1.	111200	4	.0		C4831114
7593-	C4831114		111201		4 0.38268	111202		4 0.70711		C4831124
7594-	C4831124		111203		4 0.92388					
7595-	MPC	1	8311	5	-1.	111200	5	1.00000		C4831115
7596-	C4831115		111201		5 0.92388	111202		5 0.70711		C4831125
7597-	C4831125		111203		5 0.38268					
7598-	MPC	1	8311	6	-1.	111200	6	.0		C4831116
7599-	C4831116		111201		6 0.38268	111202		6 0.70711		C4831126
7600-	C4831126		111203		6 0.92388					

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

JULY 19. 1974 NASTRAN 5/13/72

Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
7501-	MPG	8312	1	-1.	111200	1	1.00000			EM831211
7502-	EM831211	111201	1	0.70711	111202		0.00000			EM831221
7503-	EM831221	111203	1	0.70711						
7504-	MPG	8312	2	-1.	111200	2	1.00000			EM831212
7505-	EM831212	111201	2	0.70711	111202		0.00000			EM831222
7506-	EM831222	111203	2	0.70711						
7507-	MPG	8312	3	-1.	111200	3	1.00000			EM831213
7508-	EM831213	111201	3	0.70711	111202		0.00000			EM831223
7509-	EM831223	111203	3	0.70711						
7510-	MPG	8312	4	-1.	111200	4	1.00000			EM831214
7511-	EM831214	111201	4	0.70711	111202		0.00000			EM831224
7512-	EM831224	111203	4	0.70711						
7513-	MPG	8312	5	-1.	111200	5	1.00000			EM831215
7514-	EM831215	111201	5	0.70711	111202		0.00000			EM831225
7515-	EM831225	111203	5	0.70711						
7516-	MPG	8312	6	-1.	111200	6	1.00000			EM831216
7517-	EM831216	111201	6	0.70711	111202		0.00000			EM831226
7518-	EM831226	111203	6	0.70711						
7519-	MPG	8312	1	-1.	111200	1	1.00000			EM831311
7520-	EM831311	111201	1	0.38268	111202		0.00000			EM831321
7521-	EM831321	111203	1	0.92388						
7522-	MPG	8312	2	-1.	111200	2	1.00000			EM831312
7523-	EM831312	111201	2	0.92388	111202		0.00000			EM831322
7524-	EM831322	111203	2	0.38268						
7525-	MPG	8312	3	-1.	111200	3	1.00000			EM831313
7526-	EM831313	111201	3	0.38268	111202		0.00000			EM831323
7527-	EM831323	111203	3	0.92388						
7528-	MPG	8312	4	-1.	111200	4	1.00000			EM831314
7529-	EM831314	111201	4	0.92388	111202		0.00000			EM831324
7530-	EM831324	111203	4	0.38268						
7531-	MPG	8312	5	-1.	111200	5	1.00000			EM831315
7532-	EM831315	111201	5	0.38268	111202		0.00000			EM831325
7533-	EM831325	111203	5	0.92388						
7534-	MPG	8312	6	-1.	111200	6	1.00000			EM831316
7535-	EM831316	111201	6	0.92388	111202		0.00000			EM831326
7536-	EM831326	111203	6	0.38268						
7537-	MPG	8314	1	-1.	111200	1	1.00000			EM831411
7538-	EM831411	111201	1	0.00000	111202		0.00000			EM831421
7539-	EM831421	111203	1	0.00000						
7540-	MPG	8314	2	-1.	111200	2	1.00000			EM831412
7541-	EM831412	111201	2	1.00000	111202		0.00000			EM831422
7542-	EM831422	111203	2	1.00000						
7543-	MPG	8314	3	-1.	111200	3	1.00000			EM831413
7544-	EM831413	111201	3	0.00000	111202		0.00000			EM831423
7545-	EM831423	111203	3	0.00000						
7546-	MPG	8314	4	-1.	111200	4	1.00000			EM831414
7547-	EM831414	111201	4	1.00000	111202		0.00000			EM831424
7548-	EM831424	111203	4	1.00000						
7549-	MPG	8314	5	-1.	111200	5	1.00000			EM831415
7550-	EM831415	111201	5	0.00000	111202		0.00000			EM831425

SORTED BULK DATA ECHO

CARD COUNT	1	2	3	4	5	6	7	8	9	10
7631-	EM831425	1	111203	5-0.00000						
7632-	MPC		8314		111200	6				EM831416
7653-	EM831416		111201	6	1.00000	111202	6	0.00000		EM831426
7654-	EM831426		111203		6-1.00000					
7655-	MPC	1	8315		111200	1		1.00000		EM831511
7656-	EM831511		111201		1-0.38268	111202		1-0.70711		EM831521
7657-	EM831521		111203		1	0.92388				
7658-	MPC	1	8316		111201	2		2-0.70711		EM831512
7659-	EM831512		111201		2	0.92388		2-0.70711		EM831522
7660-	EM831522		111203		2-0.38269					
7661-	MPC	1	8317		111200	3		1.00000		EM831513
7662-	EM831513		111201		3-0.38268	111202		3-0.70711		EM831523
7663-	EM831523		111203		3	0.92388				
7664-	MPC	1	8318		111201	4		4-0.70711		EM831514
7665-	EM831514		111201		4	0.92388		4-0.70711		EM831524
7666-	EM831524		111203		4-0.38269					
7667-	MPC	1	8319		111201	5		1.00000		EM831515
7668-	EM831515		111201		5-0.38268	111202		5-0.70711		EM831525
7669-	EM831525		111203		5	0.92388				
7670-	MPC	1	8320		111200	6		6-0.70711		EM831516
7671-	EM831516		111201		6	0.92388		6-0.70711		EM831526
7672-	EM831526		111203		6-0.38269					
7673-	MPC	1	8321		111201	1		1.00000		EM831611
7674-	EM831611		111201		1-0.70711	111202		1-0.00000		EM831621
7675-	EM831621		111203		1	0.70711				
7676-	MPC	1	8322		111200	2		2-1.00000		EM831612
7677-	EM831612		111201		2	0.70711		2-1.00000		EM831622
7678-	EM831622		111203		2	0.70710				
7679-	MPC	1	8323		111201	3		1.00000		EM831613
7680-	EM831613		111201		3-0.70711	111202		3-0.00000		EM831623
7681-	EM831623		111203		3	0.70711				
7682-	MPC	1	8324		111200	4		4-1.00000		EM831614
7683-	EM831614		111201		4	0.70711		4-1.00000		EM831624
7684-	EM831624		111203		4	0.70710				
7685-	MPC	1	8325		111200	5		1.00000		EM831615
7686-	EM831615		111201		5-0.70711	111202		5-0.00000		EM831625
7687-	EM831625		111203		5	0.70711				
7688-	MPC	1	8326		111200	6		6-1.00000		EM831616
7689-	EM831616		111201		6	0.70711		6-1.00000		EM831626
7690-	EM831626		111203		6	0.70710				
7691-	MPC	1	8327		111200	1		1.00000		EM831711
7692-	EM831711		111201		1-0.92388	111202		1	0.70711	EM831721
7693-	EM831721		111203		1-0.38268					
7694-	MPC	1	8328		111200	2		2-0.70711		EM831712
7695-	EM831712		111201		2	0.38268		2-0.70711		EM831722
7696-	EM831722		111203		2	0.92388				
7697-	MPC	1	8329		111200	3		1.00000		EM831713
7698-	EM831713		111201		3-0.92388	111202		3	0.70711	EM831723
7699-	EM831723		111203		3-0.38268					
7700-	MPC	1	8330		111200	4		4	0.00000	EM831714

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OF POOR QUALITY

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT										
7731-	EM831714	1	111201	4	0.38268	111202	4-0.70711			EM831724
7732-	EM831724		111203	4	0.92388					
7733-	MPC	1	8317	5	-1.	111200	5	1.00000		EM831715
7734-	EM831715		111201	5-0.92388	111202	5	0.70711			EM831725
7735-	EM831725		111203	5-0.38268						
7736-	MPC	1	8317	6	-1.	111200	6	.0		EM831716
7737-	EM831716		111201	6	0.38268	111202	6-0.70711			EM831726
7738-	EM831726		111203	6	0.92388					
7739-	MPC	1	8318	1	-1.	111200	1	1.00000		EM831811
7740-	EM831811		111201	1-1.00000	111202	1	1.00000			EM831821
7741-	EM831821		111203	1-1.00000						
7742-	MPC	1	8318	2	-1.	111200	2	.0		EM831812
7743-	EM831812		111201	2	0.00000	111202	2-0.00000			EM831822
7744-	EM831822		111203	2	0.00000					
7745-	MPC	1	8318	3	-1.	111200	3	1.00000		EM831813
7746-	EM831813		111201	3-1.00000	111202	3	1.00000			EM831823
7747-	EM831823		111203	3-1.00000						
7748-	MPC	1	8318	4	-1.	111200	4	.0		EM831814
7749-	EM831814		111201	4	0.00000	111202	4-0.00000			EM831824
7750-	EM831824		111203	4	0.00000					
7751-	MPC	1	8318	5	-1.	111200	5	1.00000		EM831815
7752-	EM831815		111201	5-1.00000	111202	5	1.00000			EM831825
7753-	EM831825		111203	5-1.00000						
7754-	MPC	1	8318	6	-1.	111200	6	.0		EM831816
7755-	EM831816		111201	6	0.00000	111202	6-0.00000			EM831826
7756-	EM831826		111203	6	0.00000					
7757-	MPC	1	8330	1	-1.	111300	1	1.00000		EM833011
7758-	EM833011		111301	1	1.00000	111302	1	1.00000		EM833021
7759-	EM833021		111303	1	1.00000					
7760-	MPC	1	8330	2	-1.	111300	2	.0		EM833012
7761-	EM833012		111301	2	0.0	111302	2	0.0		EM833022
7762-	EM833022		111303	2	0.0					
7763-	MPC	1	8330	3	-1.	111300	3	1.00000		EM833013
7764-	EM833013		111301	3	1.00000	111302	3	1.00000		EM833023
7765-	EM833023		111303	3	1.00000					
7766-	MPC	1	8330	4	-1.	111300	4	.0		EM833014
7767-	EM833014		111301	4	0.0	111302	4	0.0		EM833024
7768-	EM833024		111303	4	0.0					
7769-	MPC	1	8330	5	-1.	111300	5	1.00000		EM833015
7770-	EM833015		111301	5	1.00000	111302	5	1.00000		EM833025
7771-	EM833025		111303	5	1.00000					
7772-	MPC	1	8330	6	-1.	111300	6	.0		EM833016
7773-	EM833016		111301	6	0.0	111302	6	0.0		EM833026
7774-	EM833026		111303	6	0.0					
7775-	MPC	1	8331	1	-1.	111300	1	1.		EM833111
7776-	EM833111		111301	1	.98079	111302	1	.92388		EM833121
7777-	EM833121		111303	1	.83147					
7778-	MPC	1	8331	2	-1.	111300	2	0.0		EM833112
7779-	EM833112		111301	2	.19509	111302	2	.38268		EM833122
7780-	EM833122		111303	2	.55557					

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2300	MPG	1	8331	3	-1.	111300	3	1.		
2301	MPG	1	8331	3	-1.	111300	3	1.		
2302	MPG	1	8331	3	.98079	111302	3	.92388		
2303	MPG	1	8331	3	.83147					
2304	MPG	1	8331	4	-1.	111300	4	0.0		
2305	MPG	1	8331	4	.19509	111302	4	.38268		
2306	MPG	1	8331	4	.95557					
2307	MPG	1	8331	5	-1.	111300	5	1.		
2308	MPG	1	8331	5	.98079	111302	5	.92388		
2309	MPG	1	8331	5	.83147					
2310	MPG	1	8331	6	-1.	111300	6	0.0		
2311	MPG	1	8331	6	.19509	111302	6	.38268		
2312	MPG	1	8332	6	.55557					
2313	MPG	1	8332	1	-1.	111300	1	1.00000		
2314	MPG	1	8332	1	1.02388	111302	1	0.70711		
2315	MPG	1	8332	1	0.38268					
2316	MPG	1	8332	2	-1.	111300	2	0.0		
2317	MPG	1	8332	2	0.38268	111302	2	0.70711		
2318	MPG	1	8332	2	0.92388					
2319	MPG	1	8332	3	-1.	111300	3	1.00000		
2320	MPG	1	8332	3	0.92388	111302	3	0.70711		
2321	MPG	1	8332	3	0.38268					
2322	MPG	1	8332	4	-1.	111300	4	0.0		
2323	MPG	1	8332	4	0.38268	111302	4	0.70711		
2324	MPG	1	8332	4	0.92388					
2325	MPG	1	8332	5	-1.	111300	5	1.00000		
2326	MPG	1	8332	5	0.92388	111302	5	0.70711		
2327	MPG	1	8332	5	0.38268					
2328	MPG	1	8332	6	-1.	111300	6	0.0		
2329	MPG	1	8332	6	0.38268	111302	6	0.70711		
2330	MPG	1	8332	6	0.92388					
2331	MPG	1	8332	1	-1.	111300	1	1.00000		
2332	MPG	1	8332	1	0.70711	111302	1	0.00000		
2333	MPG	1	8332	1	0.70711	111302	1	0.00000		
2334	MPG	1	8332	2	-1.	111300	2	0.0		
2335	MPG	1	8332	2	0.70711	111302	2	1.00000		
2336	MPG	1	8332	2	0.70711	111302	2	1.00000		
2337	MPG	1	8332	3	-1.	111300	3	1.00000		
2338	MPG	1	8332	3	0.70711	111302	3	0.00000		
2339	MPG	1	8332	3	0.70711	111302	3	0.00000		
2340	MPG	1	8332	4	-1.	111300	4	0.0		
2341	MPG	1	8332	4	0.70711	111302	4	1.00000		
2342	MPG	1	8332	4	0.70711	111302	4	1.00000		
2343	MPG	1	8332	5	-1.	111300	5	1.00000		
2344	MPG	1	8332	5	0.70711	111302	5	0.00000		
2345	MPG	1	8332	5	0.70711	111302	5	0.00000		
2346	MPG	1	8332	6	-1.	111300	6	0.0		
2347	MPG	1	8332	6	0.70711	111302	6	1.00000		
2348	MPG	1	8332	6	0.70711	111302	6	1.00000		
2349	MPG	1	8332	1	-1.	111300	1	1.0		
2350	MPG	1	8332	1	.55557	111302	1	-.38268		

CARD	1	2	3	4	5	6	7	8	9	10
GMPC	EM833421	111303	1							
7301-	8334	111300	2				0.0			EM833412
7802-	EM833412	111301	2				.83147	111302	2	EM833422,
7303-	EM833422	111303	2				.19509			EM833413
7304-	GPC	8334	3				-1.	111300	3	EM833423
7305-	EM833413	111301	3				.55557	111302	3	
7307-	EM833423	111303	3				-.98079			
7809-	GPC	8334	4				-1.	111300	4	EM833414
7307-	EM833414	111301	4				.83147	111302	4	EM833424
7310-	EM833424	111303	4				.19509			
7311-	GPC	8334	5				-1.	111300	5	EM833415
7312-	EM833415	111301	5				.55557	111302	5	EM833425
7313-	EM833425	111303	5				-.98079			
7314-	GPC	8334	6				-1.	111300	6	EM833416
7315-	EM833416	111301	6				.83147	111302	6	EM833426
7316-	EM833426	111303	6				.19509			
7817-	GPC	8336	1				-1.	111300	1	EM833511
7319-	EM833511	111301	1				0.38268	111302	1	EM833521
7319-	EM833521	111303	1				1-0.92388			
7320-	GPC	8336	2				-1.	111300	2	EM833512
7321-	EM833512	111301	2				2 0.92388	111302	2	EM833522
7322-	EM833522	111303	2				2-0.38268			
7823-	GPC	8336	3				-1.	111300	3	EM833513
7824-	EM833513	111301	3				3 0.38268	111302	3	EM833523
7325-	EM833523	111303	3				3-0.92388			
7825-	GPC	8336	4				-1.	111300	4	EM833514
7327-	EM833514	111301	4				4 0.92388	111302	4	EM833524
7827-	EM833524	111303	4				4-0.38268			
7327-	GPC	8336	5				-1.	111300	5	EM833515
7329-	EM833515	111301	5				5 0.38268	111302	5	EM833525
7611-	EM833525	111303	5				5-0.92388			
7332-	GPC	8336	6				-1.	111300	6	EM833516
7333-	EM833516	111301	6				6 0.92388	111302	6	EM833526
7334-	EM833526	111303	6				6-0.38268			
7835-	GPC	8336	1				-1.	111300	1	EM833611
7836-	EM833611	111301	1				1 0.00000	111302	1	EM833621
7337-	EM833621	111303	1				1-0.00000			
7837-	GPC	8336	2				-1.	111300	2	EM833612
7337-	EM833612	111301	2				2 1.00000	111302	2	EM833622
7837-	EM833622	111303	2				2-1.00000			
7341-	GPC	8336	3				-1.	111300	3	EM833613
7341-	EM833613	111301	3				3 0.00000	111302	3	EM833623
7343-	EM833623	111303	3				3-0.00000			
7344-	GPC	8336	4				-1.	111300	4	EM833614
7845-	EM833614	111301	4				4 1.00000	111302	4	EM833624
7845-	EM833624	111303	4				4-1.00000			
7847-	GPC	8336	5				-1.	111300	5	EM833615
7847-	EM833615	111301	5				5 0.00000	111302	5	EM833625
7849-	EM833625	111303	5				5-0.00000			
7850-	GPC	8336	6				-1.	111300	6	EM833616

F-INTERNAL TANK 4. FLUID MONIC REDUCTION

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CARD	1	2	3	4	5	6	7	8	9	10
7851-	CM833616		111301	6 1.00000	111302		6 0.00000			CM833626
7852-	CM833626		111303	6-1.00000						
7853-	MPC	1	8337	-1.	111300	1	1.00000			CM833711
7854-	CM833711		111301	1-0.38268	111302		1-0.70711			CM833721
7855-	CM833721		111303	1 0.92388						
7856-	MPC	1	8337	-1.	111300	2	.0			CM833712
7857-	CM833712		111301	2 0.92388	111302		2-0.70711			CM833722
7858-	CM833722		111303	2-0.38269						
7859-	MPC	1	8337	-1.	111300	3	1.00000			CM833713
7860-	CM833713		111301	3-0.38268	111302		3-0.70711			CM833723
7861-	CM833723		111303	3 0.92388						
7862-	MPC	1	8337	-1.	111300	4	.0			CM833714
7863-	CM833714		111301	4 0.92388	111302		4-0.70711			CM833724
7864-	CM833724		111303	4-0.38269						
7865-	MPC	1	8337	-1.	111300	5	1.00000			CM833715
7866-	CM833715		111301	5-0.38268	111302		5-0.70711			CM833725
7867-	CM833725		111303	5 0.92388						
7868-	MPC	1	8337	-1.	111300	6	.0			CM833716
7869-	CM833716		111301	6 0.92388	111302		6-0.70711			CM833726
7870-	CM833726		111303	6-0.38269						
7871-	MPC	1	8336	-1.	111300	1	1.00000			CM833811
7872-	CM833811		111301	1-0.70711	111302		1-0.00000			CM833821
7873-	CM833821		111303	1 0.70711						
7874-	MPC	1	8338	-1.	111300	2	.0			CM833812
7875-	CM833812		111301	2 0.70711	111302		2-1.00000			CM833822
7876-	CM833822		111303	2 0.70710						
7877-	MPC	1	8338	-1.	111300	3	1.00000			CM833813
7878-	CM833813		111301	3-0.70711	111302		3-0.00000			CM833823
7879-	CM833823		111303	3 0.70711						
7880-	MPC	1	8338	-1.	111300	4	.0			CM833814
7881-	CM833814		111301	4 0.70711	111302		4-1.00000			CM833824
7882-	CM833824		111303	4 0.70710						
7883-	MPC	1	8338	-1.	111300	5	1.00000			CM833815
7884-	CM833815		111301	5-0.70711	111302		5-0.00000			CM833825
7885-	CM833825		111303	5 0.70711						
7886-	MPC	1	8338	-1.	111300	6	.0			CM833816
7887-	CM833816		111301	6 0.70711	111302		6-1.00000			CM833826
7888-	CM833826		111303	6 0.70710						
7889-	MPC	1	8339	-1.	111300	1	1.00000			CM833911
7890-	CM833911		111301	1-0.92388	111302		1 0.70711			CM833921
7891-	CM833921		111303	1-0.38268						
7892-	MPC	1	8339	-1.	111300	2	.0			CM833912
7893-	CM833912		111301	2 0.38268	111302		2-0.70711			CM833922
7894-	CM833922		111303	2 0.92388						
7895-	MPC	1	8339	-1.	111300	3	1.00000			CM833913
7896-	CM833913		111301	3-0.92388	111302		3 0.70711			CM833923
7897-	CM833923		111303	3-0.38268						
7898-	MPC	1	8339	-1.	111300	4	.0			CM833914
7899-	CM833914		111301	4 0.38268	111302		4-0.70711			CM833924
7900-	CM833924		111303	4 0.92388						

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
7901-	GPC	8339	111301	-1.	111300	5	1.00000			EM833915
7902-	EM833915	111301	111302	5-0.92388	111302		0.70711			EM833925
7903-	EM833925	111303		5-0.38268						
7904-	GPC	8339	111306	-1.	111300	6	.0			EM833916
7905-	EM833916	111301	111302	6 0.38268	111302		6-0.70711			EM833926
7906-	EM833926	111303		6 0.92388						
7907-	GPC	8340	111301	-1.	111300	1	1.00000			EM834011
7908-	EM834011	111301	111302	1-1.00000	111302		1 1.00000			EM834021
7909-	EM834021	111303		1-1.00000						
7910-	GPC	8340	111302	-1.	111300	2	.0			EM834012
7911-	EM834012	111301	111302	2 0.00000	111302		2-0.00000			EM834022
7912-	EM834022	111303		2 0.00000						
7913-	GPC	8340	111303	-1.	111300	3	1.00000			EM834013
7914-	EM834013	111301	111302	3-1.00000	111302		3 1.00000			EM834023
7915-	EM834023	111303		3-1.00000						
7916-	GPC	8340	111304	-1.	111300	4	.0			EM834014
7917-	EM834014	111301	111302	4 0.00000	111302		4-0.00000			EM834024
7918-	EM834024	111303		4 0.00000						
7919-	GPC	8340	111305	-1.	111300	5	1.00000			EM834015
7920-	EM834015	111301	111302	5-1.00000	111302		5 1.00000			EM834025
7921-	EM834025	111303		5-1.00000						
7922-	GPC	8340	111306	-1.	111300	6	.0			EM834016
7923-	EM834016	111301	111302	6 0.00000	111302		6-0.00000			EM834026
7924-	EM834026	111303		6 0.00000						
7925-	GPC	8341	111301	1.	8336	3	-1.			
7926-	GPC	8341	111303	1.	8336	2	1.			
7927-	GPC	8355	111301	1.	8352	1	-1.			
7928-	GPC	8359	111303	1.	8352	2	.197328			EM8359Z
7929-	EM8359Z	8352		-.980338						
7930-	GPC	8360	111301	1.	8355	1	-1.			
7931-	GPC	8360	111303	1.	8355	2	.197328			EM8360Z
7932-	EM8360Z	8355		-.980338						
7933-	GPC	8370	111401	-1.	111400	1	1.00000			EM837011
7934-	EM837011	111401	111402	1 1.00000	111402		1 1.00000			EM837021
7935-	EM837021	111403		1 1.00000						
7936-	GPC	8370	111401	-1.	111400	2	1.00000			EM837012
7937-	EM837012	111401	111402	2 1.00000	111402		2 1.00000			EM837022
7938-	EM837022	111403		2 1.00000						
7939-	GPC	8370	111401	-1.	111400	3	.0			EM837013
7940-	EM837013	111401	111402	3 0.0	111402		3 0.0			EM837023
7941-	EM837023	111403		3 0.0						
7942-	GPC	8370	111401	-1.	111400	4	.0			EM837014
7943-	EM837014	111401	111402	4 0.0	111402		4 0.0			EM837024
7944-	EM837024	111403		4 0.0						
7945-	GPC	8370	111401	-1.	111400	5	.0			EM837015
7946-	EM837015	111401	111402	5 0.0	111402		5 0.0			EM837025
7947-	EM837025	111403		5 0.0						
7948-	GPC	8370	111401	-1.	111400	6	1.00000			EM837016
7949-	EM837016	111401	111402	6 1.00000	111402		6 1.00000			EM837026
7950-	EM837026	111403		6 1.00000						

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
0300	1	8371	1	-1.	111400	1	1.00000			0
0301	1	8371	1	1	111400	1	1.00000			0
0302	1	8371	1	1	111400	1	1.00000			0
0303	1	8371	1	1	111400	1	1.00000			0
0304	1	8371	1	1	111400	1	1.00000			0
0305	1	8371	1	1	111400	1	1.00000			0
0306	1	8371	1	1	111400	1	1.00000			0
0307	1	8371	1	1	111400	1	1.00000			0
0308	1	8371	1	1	111400	1	1.00000			0
0309	1	8371	1	1	111400	1	1.00000			0
0310	1	8371	1	1	111400	1	1.00000			0
0311	1	8371	1	1	111400	1	1.00000			0
0312	1	8371	1	1	111400	1	1.00000			0
0313	1	8371	1	1	111400	1	1.00000			0
0314	1	8371	1	1	111400	1	1.00000			0
0315	1	8371	1	1	111400	1	1.00000			0
0316	1	8371	1	1	111400	1	1.00000			0
0317	1	8371	1	1	111400	1	1.00000			0
0318	1	8371	1	1	111400	1	1.00000			0
0319	1	8371	1	1	111400	1	1.00000			0
0320	1	8371	1	1	111400	1	1.00000			0
0321	1	8371	1	1	111400	1	1.00000			0
0322	1	8371	1	1	111400	1	1.00000			0
0323	1	8371	1	1	111400	1	1.00000			0
0324	1	8371	1	1	111400	1	1.00000			0
0325	1	8371	1	1	111400	1	1.00000			0
0326	1	8371	1	1	111400	1	1.00000			0
0327	1	8371	1	1	111400	1	1.00000			0
0328	1	8371	1	1	111400	1	1.00000			0
0329	1	8371	1	1	111400	1	1.00000			0
0330	1	8371	1	1	111400	1	1.00000			0

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
9031-	EM837325	111403	6	5-0.38268	111400	6	1.00000			EM837316
9032-	MPC	8372	6	-1.	111400	6	1.00000			EM837326
9033-	EM837316	111401	6	6 0.38268	111402					
9034-	EM837326	111403		6-0.92388						
9035-	MPC	8374	1	-1.	111400	1	1.00000			EM837411
9036-	EM837411	111401	1	1 0.70000	111402					EM837421
9037-	EM837421	111403		1-0.00000						
9038-	MPC	8374	2	-1.	111400	2	1.00000			EM837412
9039-	EM837412	111401	2	2 0.00000	111402					EM837422
9040-	EM837422	111403		2-0.00000						
9041-	MPC	8374	3	-1.	111400	3	.0			EM837413
9042-	EM837413	111401	3	3 1.00000	111402					EM837423
9043-	EM837423	111403		3-1.00000						
9044-	MPC	8374	4	-1.	111400	4	.0			EM837414
9045-	EM837414	111401	4	4 1.00000	111402					EM837424
9046-	EM837424	111403		4-1.00000						
9047-	MPC	8374	5	-1.	111400	5	.0			EM837415
9048-	EM837415	111401	5	5 1.00000	111402					EM837425
9049-	EM837425	111403		5-1.00000						
9050-	MPC	8374	6	-1.	111400	6	1.00000			EM837416
9051-	EM837416	111401	6	6 0.00000	111402					EM837426
9052-	EM837426	111403		6-0.00000						
9053-	MPC	8375	1	-1.	111400	1	1.00000			EM837511
9054-	EM837511	111401	1	1-0.38268	111402					EM837521
9055-	EM837521	111403		1 0.92388						
9056-	MPC	8375	2	-1.	111400	2	1.00000			EM837512
9057-	EM837512	111401	2	2-0.38268	111402					EM837522
9058-	EM837522	111403		2 0.92388						
9059-	MPC	8375	3	-1.	111400	3	.0			EM837513
9060-	EM837513	111401	3	3 0.92388	111402					EM837523
9061-	EM837523	111403		3-0.38269						
9062-	MPC	8375	4	-1.	111400	4	.0			EM837514
9063-	EM837514	111401	4	4 0.92388	111402					EM837524
9064-	EM837524	111403		4-0.38269						
9065-	MPC	8375	5	-1.	111400	5	.0			EM837515
9066-	EM837515	111401	5	5 0.92388	111402					EM837525
9067-	EM837525	111403		5-0.38269						
9068-	MPC	8375	6	-1.	111400	6	1.00000			EM837516
9069-	EM837516	111401	6	6-0.38268	111402					EM837526
9070-	EM837526	111403		6 0.92388						
9071-	MPC	8376	1	-1.	111400	1	1.00000			EM837611
9072-	EM837611	111401	1	1-0.70711	111402					EM837621
9073-	EM837621	111403		1 0.70711						
9074-	MPC	8376	2	-1.	111400	2	1.00000			EM837612
9075-	EM837612	111401	2	2-0.70711	111402					EM837622
9076-	EM837622	111403		2 0.70711						
9077-	MPC	8376	3	-1.	111400	3	.0			EM837613
9078-	EM837613	111401	3	3 0.70711	111402					EM837623
9079-	EM837623	111403		3 0.70710						
9080-	MPC	8376	4	-1.	111400	4	.0			EM837614

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
0301-	111401	4	0.70711	111402	4	-1.00000				CM837624
0302-	111403	4	0.70710							
0303-	8376	5	-1.	111400	5	.0				CM837615
0304-	111401	5	0.70711	111402	5	-1.00000				CM837625
0305-	111403	5	0.70710							
0306-	8376	6	-1.	111400	6	1.00000				CM837616
0307-	111401	6	0.70711	111402	6	-0.00000				CM837626
0308-	111403	6	0.70711							
0309-	8377	1	-1.	111400	1	1.00000				CM837711
0310-	111401	1	0.92388	111402	1	0.70711				CM837721
0311-	111403	1	0.38268							
0312-	8377	2	-1.	111400	2	1.00000				CM837712
0313-	111401	2	0.92388	111402	2	0.70711				CM837722
0314-	111403	2	0.38268							
0315-	8377	3	-1.	111400	3	.0				CM837713
0316-	111401	3	0.38268	111402	3	-0.70711				CM837723
0317-	111403	3	0.92388							
0318-	8377	4	-1.	111400	4	.0				CM837714
0319-	111401	4	0.38268	111402	4	-0.70711				CM837724
0320-	111403	4	0.92388							
0321-	8377	5	-1.	111400	5	.0				CM837715
0322-	111401	5	0.38268	111402	5	-0.70711				CM837725
0323-	111403	5	0.92388							
0324-	8377	6	-1.	111400	6	1.00000				CM837716
0325-	111401	6	0.92388	111402	6	0.70711				CM837726
0326-	111403	6	0.38268							
0327-	8378	1	-1.	111400	1	1.00000				CM837811
0328-	111401	1	1.00000	111402	1	1.00000				CM837821
0329-	111403	1	-1.00000							
0330-	8378	2	-1.	111400	2	1.00000				CM837812
0331-	111401	2	-1.00000	111402	2	1.00000				CM837822
0332-	111403	2	-1.00000							
0333-	8378	3	-1.	111400	3	.0				CM837813
0334-	111401	3	0.00000	111402	3	-0.00000				CM837823
0335-	111403	3	0.00000							
0336-	8378	4	-1.	111400	4	.0				CM837814
0337-	111401	4	0.00000	111402	4	-0.00000				CM837824
0338-	111403	4	0.00000							
0339-	8378	5	-1.	111400	5	.0				CM837815
0340-	111401	5	0.00000	111402	5	-0.00000				CM837825
0341-	111403	5	0.00000							
0342-	8378	6	-1.	111400	6	1.00000				CM837816
0343-	111401	6	-1.00000	111402	6	1.00000				CM837826
0344-	111403	6	-1.00000							
0345-	8390	1	-1.	111500	1	1.00000				CM839011
0346-	111501	1	1.00000	111502	1	1.00000				CM839021
0347-	111503	1	1.00000							
0348-	8390	2	-1.	111500	2	1.00000				CM839012
0349-	111501	2	1.00000	111502	2	1.00000				CM839022
0350-	111503	2	1.00000							

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SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
8101-	MPC	1	8390	3	-1.	111500	3	0.0	0.0	0.0
8102-	EMB39013		111501		3 0.0	111502		3 0.0		EMB39013
8103-	EMB39023		111503		3 0.0					EMB39023
8104-	MPC	1	8390	4	-1.	111500	4	0.0	0.0	EMB39014
8105-	EMB39014		111501		4 0.0	111502		4 0.0		EMB39024
8106-	EMB39024		111503		4 0.0					
8107-	MPC	1	8390	5	-1.	111500	5	0.0	0.0	EMB39015
8108-	EMB39015		111501		5 0.0	111502		5 0.0		EMB39025
8109-	EMB39025		111503		5 0.0					
8110-	MPC	1	8390	6	-1.	111500	6	1.00000	1.00000	EMB39016
8111-	EMB39016		111501		6 1.00000	111502		6 1.00000		EMB39026
8112-	EMB39026		111503		6 1.00000					
8113-	MPC	1	8391	1	-1.	111500	1	1.00000	1.00000	EMB39111
8114-	EMB39111		111501		1 0.92388	111502		1 0.70711		EMB39121
8115-	EMB39121		111503		1 0.38268					
8116-	MPC	1	8391	2	-1.	111500	2	1.00000	1.00000	EMB39112
8117-	EMB39112		111501		2 0.92388	111502		2 0.70711		EMB39122
8118-	EMB39122		111503		2 0.38268					
8119-	MPC	1	8391	3	-1.	111500	3	0.0	0.0	EMB39113
8120-	EMB39113		111501		3 0.38268	111502		3 0.70711		EMB39123
8121-	EMB39123		111503		3 0.92388					
8122-	MPC	1	8391	4	-1.	111500	4	0.0	0.0	EMB39114
8123-	EMB39114		111501		4 0.38268	111502		4 0.70711		EMB39124
8124-	EMB39124		111503		4 0.92388					
8125-	MPC	1	8391	5	-1.	111500	5	0.0	0.0	EMB39115
8126-	EMB39115		111501		5 0.38268	111502		5 0.70711		EMB39125
8127-	EMB39125		111503		5 0.92388					
8128-	MPC	1	8391	6	-1.	111500	6	1.00000	1.00000	EMB39116
8129-	EMB39116		111501		6 0.92388	111502		6 0.70711		EMB39126
8130-	EMB39126		111503		6 0.38268					
8131-	MPC	1	8392	1	-1.	111500	1	1.00000	1.00000	EMB39211
8132-	EMB39211		111501		1 0.70711	111502		1 0.00000		EMB39221
8133-	EMB39221		111503		1 0.70711					
8134-	MPC	1	8392	2	-1.	111500	2	1.00000	1.00000	EMB39212
8135-	EMB39212		111501		2 0.70711	111502		2 0.00000		EMB39222
8136-	EMB39222		111503		2 0.70711					
8137-	MPC	1	8392	3	-1.	111500	3	0.0	0.0	EMB39213
8138-	EMB39213		111501		3 0.70711	111502		3 1.00000		EMB39223
8139-	EMB39223		111503		3 0.70711					
8140-	MPC	1	8392	4	-1.	111500	4	0.0	0.0	EMB39214
8141-	EMB39214		111501		4 0.70711	111502		4 1.00000		EMB39224
8142-	EMB39224		111503		4 0.70711					
8143-	MPC	1	8392	5	-1.	111500	5	0.0	0.0	EMB39215
8144-	EMB39215		111501		5 0.70711	111502		5 1.00000		EMB39225
8145-	EMB39225		111503		5 0.70711					
8146-	MPC	1	8392	6	-1.	111500	6	1.00000	1.00000	EMB39216
8147-	EMB39216		111501		6 0.70711	111502		6 0.00000		EMB39226
8148-	EMB39226		111503		6 0.70711					
8149-	MPC	1	8392	1	-1.	111500	1	1.00000	1.00000	EMB39311
8150-	EMB39311		111501		1 0.38268	111502		1 0.70711		EMB39321

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2M839321	111503	1-0.92388								
MPC	8392	-1.	111500	2	1.00000					2M839312
2M839312	111501	2 0.38268	111502							2M839322
2M839322	111503	2-0.92388								
MPC	8392	-1.	111500	3	.0					2M839313
2M839313	111501	3 0.92388	111502							2M839323
2M839323	111503	3-0.38268								
MPC	8392	-1.	111500	4	.0					2M839314
2M839314	111501	4 0.92388	111502							2M839324
2M839324	111503	4-0.38268								
MPC	8392	-1.	111500	5	.0					2M839315
2M839315	111501	5 0.92388	111502							2M839325
2M839325	111503	5-0.38268								
MPC	8392	-1.	111500	6	1.00000					2M839316
2M839316	111501	6 0.38268	111502							2M839326
2M839326	111503	6-0.92388								
MPC	8392	-1.	111500	1	1.00000					2M839411
2M839411	111501	1 0.00000	111502							2M839421
2M839421	111503	1-0.00000								
MPC	8392	-1.	111500	2	1.00000					2M839412
2M839412	111501	2 0.00000	111502							2M839422
2M839422	111503	2-0.00000								
MPC	8392	-1.	111500	3	.0					2M839413
2M839413	111501	3 1.00000	111502							2M839423
2M839423	111503	3-1.00000								
MPC	8392	-1.	111500	4	.0					2M839414
2M839414	111501	4 1.00000	111502							2M839424
2M839424	111503	4-1.00000								
MPC	8392	-1.	111500	5	.0					2M839415
2M839415	111501	5 1.00000	111502							2M839425
2M839425	111503	5-1.00000								
MPC	8392	-1.	111500	6	1.00000					2M839416
2M839416	111501	6 0.00000	111502							2M839426
2M839426	111503	6-0.00000								
MPC	8392	-1.	111500	1	1.00000					2M839511
2M839511	111501	1-0.38268	111502							2M839521
2M839521	111503	1 0.92388								
MPC	8392	-1.	111500	2	1.00000					2M839512
2M839512	111501	2-0.38268	111502							2M839522
2M839522	111503	2 0.92388								
MPC	8392	-1.	111500	3	.0					2M839513
2M839513	111501	3 0.92388	111502							2M839523
2M839523	111503	3-0.38268								
MPC	8392	-1.	111500	4	.0					2M839514
2M839514	111501	4 0.92388	111502							2M839524
2M839524	111503	4-0.38268								
MPC	8392	-1.	111500	5	.0					2M839515
2M839515	111501	5 0.92388	111502							2M839525
2M839525	111503	5-0.38268								
MPC	8392	-1.	111500	6	1.00000					2M839516

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
C3U/IT										
8201-	6MB39516	111501	6-0.38268	111502	111500	1	1-0.00000	1	1-0.00000	6MB39526
8202-	6MB39526	111503	6 0.92388							
8203-	MPC	8396	1	111500	1	1-0.00000	1	1-0.00000	1	6MB39611
8204-	6MB39611	111501	1-0.70711	111502	111500	2	1-0.00000	2	1-0.00000	6MB39621
8205-	6MB39621	111503	1 0.70711							
8206-	MPC	8396	2	111500	2	1-0.00000	2	1-0.00000	2	6MB39612
8207-	6MB39612	111501	2-0.70711	111502	111500	3	2-0.00000	3	2-0.00000	6MB39622
8208-	6MB39622	111503	2 0.70711							
8209-	MPC	8396	3	111500	3	3-1.00000	3	3-1.00000	3	6MB39613
8210-	6MB39613	111501	3 0.70711	111502	111500	4	3-1.00000	4	3-1.00000	6MB39623
8211-	6MB39623	111503	3 0.70710							
8212-	MPC	8396	4	111500	4	4-1.00000	4	4-1.00000	4	6MB39614
8213-	6MB39614	111501	4 0.70711	111502	111500	5	4-1.00000	5	4-1.00000	6MB39624
8214-	6MB39624	111503	4 0.70710							
8215-	MPC	8396	5	111500	5	5-1.00000	5	5-1.00000	5	6MB39615
8216-	6MB39615	111501	5 0.70711	111502	111500	6	5-1.00000	6	5-1.00000	6MB39625
8217-	6MB39625	111503	5 0.70710							
8218-	MPC	8396	6	111500	6	6-0.00000	6	6-0.00000	6	6MB39616
8219-	6MB39616	111501	6-0.70711	111502	111500	7	6-0.00000	7	6-0.00000	6MB39626
8220-	6MB39626	111503	6 0.70711							
8221-	MPC	8397	1	111500	1	1-0.00000	1	1-0.00000	1	6MB39711
8222-	6MB39711	111501	1-0.92388	111502	111500	2	1-0.00000	2	1-0.00000	6MB39721
8223-	6MB39721	111503	1-0.38268							
8224-	MPC	8397	2	111500	2	1-0.00000	2	1-0.00000	2	6MB39712
8225-	6MB39712	111501	2-0.92388	111502	111500	3	2 0.70711	3	2 0.70711	6MB39722
8226-	6MB39722	111503	2-0.38268							
8227-	MPC	8397	3	111500	3	3-0.70711	3	3-0.70711	3	6MB39713
8228-	6MB39713	111501	3 0.38268	111502	111500	4	3-0.70711	4	3-0.70711	6MB39723
8229-	6MB39723	111503	3 0.92388							
8230-	MPC	8397	4	111500	4	4-0.70711	4	4-0.70711	4	6MB39714
8231-	6MB39714	111501	4 0.38268	111502	111500	5	4-0.70711	5	4-0.70711	6MB39724
8232-	6MB39724	111503	4 0.92388							
8233-	MPC	8397	5	111500	5	5-0.70711	5	5-0.70711	5	6MB39715
8234-	6MB39715	111501	5 0.38268	111502	111500	6	5-0.70711	6	5-0.70711	6MB39725
8235-	6MB39725	111503	5 0.92388							
8236-	MPC	8397	6	111500	6	6 0.70711	6	6 0.70711	6	6MB39716
8237-	6MB39716	111501	6-0.92388	111502	111500	7	6 0.70711	7	6 0.70711	6MB39726
8238-	6MB39726	111503	6-0.38268							
8239-	MPC	8396	1	111500	1	1-0.00000	1	1-0.00000	1	6MB39811
8240-	6MB39811	111501	1-1.00000	111502	111500	2	1 1.00000	2	1 1.00000	6MB39821
8241-	6MB39821	111503	1-1.00000							
8242-	MPC	8396	2	111500	2	2 1.00000	2	2 1.00000	2	6MB39812
8243-	6MB39812	111501	2-1.00000	111502	111500	3	2 1.00000	3	2 1.00000	6MB39822
8244-	6MB39822	111503	2-1.00000							
8245-	MPC	8396	3	111500	3	3-0.00000	3	3-0.00000	3	6MB39813
8246-	6MB39813	111501	3 0.00000	111502	111500	4	3-0.00000	4	3-0.00000	6MB39823
8247-	6MB39823	111503	3 0.00000							
8248-	MPC	8396	4	111500	4	4-0.00000	4	4-0.00000	4	6MB39814
8249-	6MB39814	111501	4 0.00000	111502	111500	5	4-0.00000	5	4-0.00000	6MB39824
8250-	6MB39824	111503	4 0.00000							

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CARD	1	2	3	4	5	6	7	8	9	10
8251-	MPC	8398	1	-1.	111500	5	.0	5-0.00000		EM839815
8252-	EM839815	111501	5	0.00000	111502					EM839825
8253-	EM839825	111503	5	0.00000						
8254-	MPC	8398	6	-1.	111500	6	1.00000			EM839816
8255-	EM839816	111501	6	-1.00000	111502		6	1.00000		EM839826
8256-	EM839826	111503	6	-1.00000						
8257-	MPC	8410	1	-1.	111600	1	1.00000			EM841011
8258-	EM841011	111601	1	1.00000	111602		1	1.00000		EM841021
8259-	EM841021	111603	1	1.00000						
8260-	MPC	8410	2	-1.	111600	2	1.00000			EM841012
8261-	EM841012	111601	2	1.00000	111602		2	1.00000		EM841022
8262-	EM841022	111603	2	1.00000						
8263-	MPC	8410	3	-1.	111600	3	.0			EM841013
8264-	EM841013	111601	3	0.0	111602		3	0.0		EM841023
8265-	EM841023	111603	3	0.0						
8266-	MPC	8410	4	-1.	111600	4	.0			EM841014
8267-	EM841014	111601	4	0.0	111602		4	0.0		EM841024
8268-	EM841024	111603	4	0.0						
8269-	MPC	8410	5	-1.	111600	5	.0			EM841015
8270-	EM841015	111601	5	0.0	111602		5	0.0		EM841025
8271-	EM841025	111603	5	0.0						
8272-	MPC	8410	6	-1.	111600	6	1.00000			EM841016
8273-	EM841016	111601	6	1.00000	111602		6	1.00000		EM841026
8274-	EM841026	111603	6	1.00000						
8275-	MPC	8411	1	-1.	111600	1	1.00000			EM841111
8276-	EM841111	111601	1	0.92388	111602		1	0.70711		EM841121
8277-	EM841121	111603	1	0.38268						
8278-	MPC	8411	2	-1.	111600	2	1.00000			EM841112
8279-	EM841112	111601	2	0.92388	111602		2	0.70711		EM841122
8280-	EM841122	111603	2	0.38268						
8281-	MPC	8411	3	-1.	111600	3	.0			EM841113
8282-	EM841113	111601	3	0.38268	111602		3	0.70711		EM841123
8283-	EM841123	111603	3	0.92388						
8284-	MPC	8411	4	-1.	111600	4	.0			EM841114
8285-	EM841114	111601	4	0.38268	111602		4	0.70711		EM841124
8286-	EM841124	111603	4	0.92388						
8287-	MPC	8411	5	-1.	111600	5	.0			EM841115
8288-	EM841115	111601	5	0.38268	111602		5	0.70711		EM841125
8289-	EM841125	111603	5	0.92388						
8290-	MPC	8411	6	-1.	111600	6	1.00000			EM841116
8291-	EM841116	111601	6	0.92388	111602		6	0.70711		EM841126
8292-	EM841126	111603	6	0.38268						
8293-	MPC	8412	1	-1.	111600	1	1.00000			EM841211
8294-	EM841211	111601	1	0.70711	111602		1	0.00000		EM841221
8295-	EM841221	111603	1	0.70711						
8296-	MPC	8412	2	-1.	111600	2	1.00000			EM841212
8297-	EM841212	111601	2	0.70711	111602		2	0.00000		EM841222
8298-	EM841222	111603	2	0.70711						
8299-	MPC	8412	3	-1.	111600	3	.0			EM841213
8300-	EM841213	111601	3	0.70711	111602		3	1.00000		EM841223

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CARD	1	2	3	4	5	6	7	8	9	10
8101	EM841223		111603	3 0.70711						
8102	MPC	8412	4	-1.	111600	4	.0			EM841214
8103	EM841214		111601	4 0.70711	111602		4 1.00000			EM841224
8104	EM841224		111603	4 0.70711						
8105	MPC	8412	5	-1.	111600	5	.0			EM841215
8106	EM841215		111601	5 0.70711	111602		5 1.00000			EM841225
8107	EM841225		111603	5 0.70711						
8108	MPC	8412	6	-1.	111600	6	1.00000			EM841216
8109	EM841216		111601	6 0.70711	111602		6 0.00000			EM841226
8110	EM841226		111603	6-0.70711						
8111	MPC	8412	1	-1.	111600	1	1.00000			EM841311
8112	EM841311		111601	1 0.38268	111602		1-0.70711			EM841321
8113	EM841321		111603	1-0.92388						
8114	MPC	8412	2	-1.	111600	2	1.00000			EM841312
8115	EM841312		111601	2 0.38268	111602		2-0.70711			EM841322
8116	EM841322		111603	2-0.92388						
8117	MPC	8412	3	-1.	111600	3	.0			EM841313
8118	EM841313		111601	3 0.92388	111602		3 0.70711			EM841323
8119	EM841323		111603	3-0.38268						
8120	MPC	8412	4	-1.	111600	4	.0			EM841314
8121	EM841314		111601	4 0.92388	111602		4 0.70711			EM841324
8122	EM841324		111603	4-0.38268						
8123	MPC	8412	5	-1.	111600	5	.0			EM841315
8124	EM841315		111601	5 0.92388	111602		5 0.70711			EM841325
8125	EM841325		111603	5-0.38268						
8126	MPC	8412	6	-1.	111600	6	1.00000			EM841316
8127	EM841316		111601	6 0.38268	111602		6-0.70711			EM841326
8128	EM841326		111603	6-0.92388						
8129	MPC	8414	1	-1.	111600	1	1.00000			EM841411
8130	EM841411		111601	1 0.00000	111602		1-1.00000			EM841421
8131	EM841421		111603	1-0.00000						
8132	MPC	8414	2	-1.	111600	2	1.00000			EM841412
8133	EM841412		111601	2 0.00000	111602		2-1.00000			EM841422
8134	EM841422		111603	2-0.00000						
8135	MPC	8414	3	-1.	111600	3	.0			EM841413
8136	EM841413		111601	3 1.00000	111602		3 0.00000			EM841423
8137	EM841423		111603	3-1.00000						
8138	MPC	8414	4	-1.	111600	4	.0			EM841414
8139	EM841414		111601	4 1.00000	111602		4 0.00000			EM841424
8140	EM841424		111603	4-1.00000						
8141	MPC	8414	5	-1.	111600	5	.0			EM841415
8142	EM841415		111601	5 1.00000	111602		5 0.00000			EM841425
8143	EM841425		111603	5-1.00000						
8144	MPC	8414	6	-1.	111600	6	1.00000			EM841416
8145	EM841416		111601	6 0.00000	111602		6-1.00000			EM841426
8146	EM841426		111603	6-C.00000						
8147	MPC	8415	1	-1.	111600	1	1.00000			EM841511
8148	EM841511		111601	1-0.38268	111602		1-0.70711			EM841521
8149	EM841521		111603	1 0.92388						
8150	MPC	8415	2	-1.	111600	2	1.00000			EM841512

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CARD	1	2	3	4	5	6	7	8	9	10
8101-	EM841223	111603	3	0.70711						
8102-	MPC	8412	4	-1.	111600	4	.0			EM841214
8103-	EM841214	111601	4	0.70711	111602	4	1.00000			EM841224
8104-	EM841224	111603	4	0.70711						
8105-	MPC	8412	5	-1.	111600	5	.0			EM841215
8106-	EM841215	111601	5	0.70711	111602	5	1.00000			EM841225
8107-	EM841225	111603	5	0.70711						
8108-	MPC	8412	6	-1.	111600	6	1.00000			EM841216
8109-	EM841216	111601	6	0.70711	111602	6	0.00000			EM841226
8110-	EM841226	111603	6	0.70711						
8111-	MPC	8412	1	-1.	111600	1	1.00000			EM841311
8112-	EM841311	111601	1	0.38268	111602	1	1-0.70711			EM841321
8113-	EM841321	111603	1	0.92388						
8114-	MPC	8412	2	-1.	111600	2	1.00000			EM841312
8115-	EM841312	111601	2	0.38268	111602	2	2-0.70711			EM841322
8116-	EM841322	111603	2	0.92388						
8117-	MPC	8412	3	-1.	111600	3	.0			EM841313
8118-	EM841313	111601	3	0.92388	111602	3	3 0.70711			EM841323
8119-	EM841323	111603	3	0.38268						
8120-	MPC	8412	4	-1.	111600	4	.0			EM841314
8121-	EM841314	111601	4	0.92388	111602	4	4 0.70711			EM841324
8122-	EM841324	111603	4	0.38268						
8123-	MPC	8412	5	-1.	111600	5	.0			EM841315
8124-	EM841315	111601	5	0.92388	111602	5	5 0.70711			EM841325
8125-	EM841325	111603	5	0.38268						
8126-	MPC	8412	6	-1.	111600	6	1.00000			EM841316
8127-	EM841316	111601	6	0.38268	111602	6	6-0.70711			EM841326
8128-	EM841326	111603	6	0.92388						
8129-	MPC	8414	1	-1.	111600	1	1.00000			EM841411
8130-	EM841411	111601	1	0.00000	111602	1	1-1.00000			EM841421
8131-	EM841421	111603	1	0.00000						
8132-	MPC	8414	2	-1.	111600	2	1.00000			EM841412
8133-	EM841412	111601	2	0.00000	111602	2	2-1.00000			EM841422
8134-	EM841422	111603	2	0.00000						
8135-	MPC	8414	3	-1.	111600	3	.0			EM841413
8136-	EM841413	111601	3	1.00000	111602	3	3 0.00000			EM841423
8137-	EM841423	111603	3	1.00000						
8138-	MPC	8414	4	-1.	111600	4	.0			EM841414
8139-	EM841414	111601	4	1.00000	111602	4	4 0.00000			EM841424
8140-	EM841424	111603	4	1.00000						
8141-	MPC	8414	5	-1.	111600	5	.0			EM841415
8142-	EM841415	111601	5	1.00000	111602	5	5 0.00000			EM841425
8143-	EM841425	111603	5	1.00000						
8144-	MPC	8414	6	-1.	111600	6	1.00000			EM841416
8145-	EM841416	111601	6	0.00000	111602	6	6-1.00000			EM841426
8146-	EM841426	111603	6	0.00000						
8147-	MPC	8415	1	-1.	111600	1	1.00000			EM841511
8148-	EM841511	111601	1	0.38268	111602	1	1-0.70711			EM841521
8149-	EM841521	111603	1	0.92388						
8150-	MPC	8415	2	-1.	111600	2	1.00000			EM841512

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CARD	1	2	3	4	5	6	7	8	9	10
9351-	CM841512	111601	2-0.38268	111602	2-0.70711					CM841522
9352-	CM841522	111603	2 0.92388							
9353-	MPC	8415	3	111600	3					CM841513
9354-	CM841513	111601	3 0.92388	111602	3-0.70711					CM841523
9355-	CM841523	111603	3-0.38268							
9356-	MPC	8415	4	111600	4					CM841514
9357-	CM841514	111601	4 0.92388	111602	4-0.70711					CM841524
9358-	CM841524	111603	4-0.38268							
9359-	MPC	8415	5	111600	5					CM841515
9360-	CM841515	111601	5 0.92388	111602	5-0.70711					CM841525
9361-	CM841525	111603	5-0.38268							
9362-	MPC	8415	6	111600	6					CM841516
9363-	CM841516	111601	6-0.38268	111602	6-0.70711					CM841526
9364-	CM841526	111603	6 0.92388							
9365-	MPC	8415	1	111600	1					CM841611
9366-	CM841611	111601	1-0.70711	111602	1-0.00000					CM841621
9367-	CM841621	111603	1 0.70711							
9368-	MPC	8415	2	111600	2					CM841612
9369-	CM841612	111601	2-0.70711	111602	2-0.00000					CM841622
9370-	CM841622	111603	2 0.70711							
9371-	MPC	8415	3	111600	3					CM841613
9372-	CM841613	111601	3 0.70711	111602	3-1.00000					CM841623
9373-	CM841623	111603	3 0.70710							
9374-	MPC	8415	4	111600	4					CM841614
9375-	CM841614	111601	4 0.70711	111602	4-1.00000					CM841624
9376-	CM841624	111603	4 0.70710							
9377-	MPC	8415	5	111600	5					CM841615
9378-	CM841615	111601	5 0.70711	111602	5-1.00000					CM841625
9379-	CM841625	111603	5 0.70710							
9380-	MPC	8415	6	111600	6					CM841616
9381-	CM841616	111601	6-0.70711	111602	6-0.00000					CM841626
9382-	CM841626	111603	6 0.70711							
9383-	MPC	8417	1	111600	1					CM841711
9384-	CM841711	111601	1-0.92388	111602	1 0.70711					CM841721
9385-	CM841721	111603	1-0.38268							
9386-	MPC	8417	2	111600	2					CM841712
9387-	CM841712	111601	2-0.92388	111602	2 0.70711					CM841722
9388-	CM841722	111603	2-0.38268							
9389-	MPC	8417	3	111600	3					CM841713
9390-	CM841713	111601	3 0.38268	111602	3-0.70711					CM841723
9391-	CM841723	111603	3 0.92388							
9392-	MPC	8417	4	111600	4					CM841714
9393-	CM841714	111601	4 0.38268	111602	4-0.70711					CM841724
9394-	CM841724	111603	4 0.92388							
9395-	MPC	8417	5	111600	5					CM841715
9396-	CM841715	111601	5 0.38268	111602	5-0.70711					CM841725
9397-	CM841725	111603	5 0.92388							
9398-	MPC	8417	6	111600	6					CM841716
9399-	CM841716	111601	6-0.92388	111602	6 0.70711					CM841726
9400-	CM841726	111603	6-0.38268							

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CARD	1	2	3	4	5	6	7	8	9	10
3401-	MP	841E	1		-1.	111600	1	1.00000		10
3402-	EM841811		111601			111602		1.00000		EM841811
3403-	EM841821		111603		1-1.00000	111602		1.00000		EM841821
3404-	MP	841E	2		-1.	111600	2	1.00000		EM841812
3405-	EM841812		111601		2-1.00000	111602		2 1.00000		EM841822
3406-	EM841822		111603		2-1.00000					
3407-	MP	841E	3		-1.	111600	3	.0		EM841813
3408-	EM841813		111601		3 0.00000	111602		3-0.00000		EM841823
3409-	EM841823		111603		3 0.00000					
3410-	MP	841E	4		-1.	111600	4	.0		EM841814
3411-	EM841814		111601		4 0.00000	111602		4-0.00000		EM841824
3412-	EM841824		111603		4 0.00000					
3413-	MP	841E	5		-1.	111600	5	.0		EM841815
3414-	EM841815		111601		5 0.00000	111602		5-0.00000		EM841825
3415-	EM841825		111603		5 0.00000					
3416-	MP	841E	6		-1.	111600	6	1.00000		EM841816
3417-	EM841816		111601		6-1.00000	111602		6 1.00000		EM841826
3418-	EM841826		111603		6-1.00000					
3419-	MP	8430	1		-1.	111700	1	1.00000		EM843011
3420-	EM843011		111701		1 1.00000	111702		1 1.00000		EM843021
3421-	EM843021		111703		1 1.00000					
3422-	MP	8430	2		-1.	111700	2	1.00000		EM843012
3423-	EM843012		111701		2 1.00000	111702		2 1.00000		EM843022
3424-	EM843022		111703		2 1.00000					
3425-	MP	8430	3		-1.	111700	3	.0		EM843013
3426-	EM843013		111701		3 0.0	111702		3 0.0		EM843023
3427-	EM843023		111703		3 0.0					
3428-	MP	8430	4		-1.	111700	4	.0		EM843014
3429-	EM843014		111701		4 0.0	111702		4 0.0		EM843024
3430-	EM843024		111703		4 0.0					
3431-	MP	8430	5		-1.	111700	5	.0		EM843015
3432-	EM843015		111701		5 0.0	111702		5 0.0		EM843025
3433-	EM843025		111703		5 0.0					
3434-	MP	8430	6		-1.	111700	6	1.00000		EM843016
3435-	EM843016		111701		6 1.00000	111702		6 1.00000		EM843026
3436-	EM843026		111703		6 1.00000					
3437-	MP	8431	1		-1.	111700	1	1.00000		EM843111
3438-	EM843111		111701		1 0.92388	111702		1 0.70711		EM843121
3439-	EM843121		111703		1 0.38268					
3440-	MP	8431	2		-1.	111700	2	1.00000		EM843112
3441-	EM843112		111701		2 0.92388	111702		2 0.70711		EM843122
3442-	EM843122		111703		2 0.38268					
3443-	MP	8431	3		-1.	111700	3	.0		EM843113
3444-	EM843113		111701		3 0.38268	111702		3 0.70711		EM843123
3445-	EM843123		111703		3 0.92388					
3446-	MP	8431	4		-1.	111700	4	.0		EM843114
3447-	EM843114		111701		4 0.38268	111702		4 0.70711		EM843124
3448-	EM843124		111703		4 0.92388					
3449-	MP	8431	5		-1.	111700	5	.0		EM843115
3450-	EM843115		111701		5 0.38268	111702		5 0.70711		EM843125

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CARD	1	2	3	4	5	6	7	8	9	10
8451-	EM843125	1	111703		5 0.92388					
8452-	MPC	8431	6		-1.	111700	6	1.00000		EM843116
8451-	EM843116	1	111701		6 0.92388	111702		6 0.70711		EM843126
8451-	EM843126	1	111703		6 0.38268					
8455-	MPC	8432	1		-1.	111700	1	1.00000		EM843211
8456-	EM843211	1	111701		1 0.70711	111702		1 0.00000		EM843221
8457-	EM843221	1	111703		1-0.70711					
8439-	MPC	8432	2		-1.	111700	2	1.00000		EM843212
8452-	EM843212	1	111701		2 0.70711	111702		2 0.00000		EM843222
8452-	EM843222	1	111703		2-0.70711					
8451-	MPC	8432	3		-1.	111700	3	.0		EM843213
8452-	EM843213	1	111701		3 0.70711	111702		3 1.00000		EM843223
8461-	EM843223	1	111703		3 0.70711					
8463-	MPC	8432	4		-1.	111700	4	.0		EM843214
8465-	EM843214	1	111701		4 0.70711	111702		4 1.00000		EM843224
8465-	EM843224	1	111703		4 0.70711					
8457-	MPC	8432	5		-1.	111700	5	.0		EM843215
8463-	EM843215	1	111701		5 0.70711	111702		5 1.00000		EM843225
8463-	EM843225	1	111703		5 0.70711					
8473-	MPC	8432	6		-1.	111700	6	1.00000		EM843216
8471-	EM843216	1	111701		6 0.70711	111702		6 0.00000		EM843226
8472-	EM843226	1	111703		6-0.70711					
8473-	MPC	8432	1		-1.	111700	1	1.00000		EM843311
8474-	EM843311	1	111701		1 0.38268	111702		1-0.70711		EM843321
8475-	EM843321	1	111703		1-0.92388					
8476-	MPC	8432	2		-1.	111700	2	1.00000		EM843312
8477-	EM843312	1	111701		2 0.38268	111702		2-0.70711		EM843322
8478-	EM843322	1	111703		2-0.92388					
8479-	MPC	8432	3		-1.	111700	3	.0		EM843313
8480-	EM843313	1	111701		3 0.92388	111702		3 0.70711		EM843323
8481-	EM843323	1	111703		3-0.38268					
8482-	MPC	8432	4		-1.	111700	4	.0		EM843314
8483-	EM843314	1	111701		4 0.92388	111702		4 0.70711		EM843324
8484-	EM843324	1	111703		4-0.38268					
8485-	MPC	8432	5		-1.	111700	5	.0		EM843315
8486-	EM843315	1	111701		5 0.92388	111702		5 0.70711		EM843325
8487-	EM843325	1	111703		5-0.38268					
8488-	MPC	8432	6		-1.	111700	6	1.00000		EM843316
8489-	EM843316	1	111701		6 0.38268	111702		6-0.70711		EM843326
8490-	EM843326	1	111703		6-0.92388					
8491-	MPC	8434	1		-1.	111700	1	1.00000		EM843411
8492-	EM843411	1	111701		1 0.00000	111702		1-1.00000		EM843421
8493-	EM843421	1	111703		1-0.00000					
8494-	MPC	8434	2		-1.	111700	2	1.00000		EM843412
8495-	EM843412	1	111701		2 0.00000	111702		2-1.00000		EM843422
8496-	EM843422	1	111703		2-0.00000					
8497-	MPC	8434	3		-1.	111700	3	.0		EM843413
8498-	EM843413	1	111701		3 1.00000	111702		3 0.00000		EM843423
8499-	EM843423	1	111703		3-1.00000					
8500-	MPC	8434	4		-1.	111700	4	.0		EM843414

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNT										
9501-	CME43414	111701	4	1.00000	111702	4	0.00000			CME43424
9502-	CME43424	111703	4	-1.00000						
9503-	MPC	8434	5	-1.	111700	5	.0			CME43415
9504-	CME43415	111701	5	1.00000	111702	5	0.00000			CME43425
9505-	CME43425	111703	5	-1.00000						
9506-	MPC	8434	6	-1.	111700	6	1.00000			CME43416
9507-	CME43416	111701	6	0.00000	111702	6	-1.00000			CME43426
9508-	CME43426	111703	6	0.00000						
9509-	MPC	8435	1	-1.	111700	1	1.00000			CME43511
9510-	CME43511	111701	1	0.38268	111702	1	1.00000			CME43521
9511-	CME43521	111703	1	0.92388						
9512-	MPC	8435	2	-1.	111700	2	1.00000			CME43512
9513-	CME43512	111701	2	0.38268	111702	2	2.00000			CME43522
9514-	CME43522	111703	2	0.92388						
9515-	MPC	8435	3	-1.	111700	3	.0			CME43513
9516-	CME43513	111701	3	0.92388	111702	3	3.00000			CME43523
9517-	CME43523	111703	3	0.38268						
9518-	MPC	8435	4	-1.	111700	4	.0			CME43514
9519-	CME43514	111701	4	0.92388	111702	4	4.00000			CME43524
9520-	CME43524	111703	4	0.38268						
9521-	MPC	8435	5	-1.	111700	5	.0			CME43515
9522-	CME43515	111701	5	0.92388	111702	5	5.00000			CME43525
9523-	CME43525	111703	5	0.38268						
9524-	MPC	8435	6	-1.	111700	6	1.00000			CME43516
9525-	CME43516	111701	6	0.38268	111702	6	6.00000			CME43526
9526-	CME43526	111703	6	0.92388						
9527-	MPC	8436	1	-1.	111700	1	1.00000			CME43611
9528-	CME43611	111701	1	0.70711	111702	1	1.00000			CME43621
9529-	CME43621	111703	1	0.70711						
9530-	MPC	8436	2	-1.	111700	2	1.00000			CME43612
9531-	CME43612	111701	2	0.70711	111702	2	2.00000			CME43622
9532-	CME43622	111703	2	0.70711						
9533-	MPC	8436	3	-1.	111700	3	.0			CME43613
9534-	CME43613	111701	3	0.70711	111702	3	3.00000			CME43623
9535-	CME43623	111703	3	0.70710						
9536-	MPC	8436	4	-1.	111700	4	.0			CME43614
9537-	CME43614	111701	4	0.70711	111702	4	4.00000			CME43624
9538-	CME43624	111703	4	0.70710						
9539-	MPC	8436	5	-1.	111700	5	.0			CME43615
9540-	CME43615	111701	5	0.70711	111702	5	5.00000			CME43625
9541-	CME43625	111703	5	0.70710						
9542-	MPC	8436	6	-1.	111700	6	1.00000			CME43616
9543-	CME43616	111701	6	0.70711	111702	6	6.00000			CME43626
9544-	CME43626	111703	6	0.70711						
9545-	MPC	8437	1	-1.	111700	1	1.00000			CME43711
9546-	CME43711	111701	1	0.92388	111702	1	1.00000			CME43721
9547-	CME43721	111703	1	0.38268						
9548-	MPC	8437	2	-1.	111700	2	1.00000			CME43712
9549-	CME43712	111701	2	0.92388	111702	2	2.00000			CME43722
9550-	CME43722	111703	2	0.38268						

Volume II

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNIT										
8551-	MPC	1	8A37	3	-1.	111700	3	.0		EM843713
8552-	EM843713		111701		3 0.38268	111702		3-0.70711		EM843723
8553-	EM843723		111703		3 0.92389					
8554-	MPC	1	8A37	4	-1.	111700	4	.0		EM843714
8555-	EM843714		111701		4 0.38268	111702		4-0.70711		EM843724
8556-	EM843724		111703		4 0.92388					
8557-	MPC	1	8A37	5	-1.	111700	5	.0		EM843715
8558-	EM843715		111701		5 0.38268	111702		5-0.70711		EM843725
8559-	EM843725		111703		5 0.92389					
8560-	MPC	1	8A37	6	-1.	111700	6	1.00000		EM843716
8561-	EM843716		111701		6-0.92388	111702		6 0.70711		EM843726
8562-	EM843726		111703		6-0.38268					
8563-	MPC	1	8A38	1	-1.	111700	1	1.00000		EM843811
8564-	EM843811		111701		1-1.00000	111702		1 1.00000		EM843821
8565-	EM843821		111703		1-1.00000					
8566-	MPC	1	8A38	2	-1.	111700	2	1.00000		EM843812
8567-	EM843812		111701		2-1.00000	111702		2 1.00000		EM843822
8568-	EM843822		111703		2-1.00000					
8569-	MPC	1	8A38	3	-1.	111700	3	.0		EM843813
8570-	EM843813		111701		3 0.00000	111702		3-0.00000		EM843823
8571-	EM843823		111703		3 0.00000					
8572-	MPC	1	8A38	4	-1.	111700	4	.0		EM843814
8573-	EM843814		111701		4 0.00000	111702		4-0.00000		EM843824
8574-	EM843824		111703		4 0.00000					
8575-	MPC	1	8A38	5	-1.	111700	5	.0		EM843815
8576-	EM843815		111701		5 0.00000	111702		5-0.00000		EM843825
8577-	EM843825		111703		5 0.00000					
8578-	MPC	1	8A38	6	-1.	111700	6	1.00000		EM843816
8579-	EM843816		111701		6-1.00000	111702		6 1.00000		EM843826
8580-	EM843826		111703		6-1.00000					
8581-	MPC	1	8A40	1	1.	111700	1	-9534		CHI
8582-	CHI		111700	2	.3015					
8583-	MPC	1	101600	2	.9919	101600	1	.1269		
8584-	MPC	1	111700	2	.9534	111700	1	.3015		
8585-	OMIT1	3	8325							
8586-	OMIT1	13	8328							
8587-	OMIT1	15	110200							
8588-	OMIT1	26	100200	100300	100400	100500	100600	101000	101100	
8589-	OMIT1	26	101200	101300	101400	101500	111400	111500	111600	
8590-	OMIT1	35	5204	8440						
8591-	OMIT1	35	100700	100800	100900	110100	110300	110400		
8592-	OMIT1	35	110500	110600	110700	110800	110900	111000	111100	
8593-	OMIT1	35	111200	111300						
8594-	OMIT1	135	5001	8001						
8595-	OMIT1	135	8010	8014	8030	8038	8050	8058		
8596-	OMIT1	135	8350	8358						
8597-	OMIT1	23456	100201	100202	100203					
8598-	OMIT1	23456	100301	100302	100303					
8599-	OMIT1	23456	100401	100402	100403					
8600-	OMIT1	23456	100501	100502	100503					

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
2304F										
8631-	OMITI	23456	100601	100602	100603					
8602-	OMITI	23456	100701	100702	100703					
8603-	OMITI	23456	100801	100802	100803					
8604-	OMITI	23456	100901	100902	100903					
8605-	OMITI	23456	101001	101002	101003					
8606-	OMITI	23456	101101	101102	101103					
8607-	OMITI	23456	101201	101202	101203					
8608-	OMITI	23456	101301	101302	101303					
8609-	OMITI	23456	101401	101402	101403					
8610-	OMITI	23456	101501	101502	101503					
8611-	OMITI	23456	101601	101602	101603					
8612-	OMITI	23456	110101	110102	110103					
8613-	OMITI	23456	110201	110202	110203					
8614-	OMITI	23456	110301	110302	110303					
8615-	OMITI	23456	110401	110402	110403					
8616-	OMITI	23456	110501	110502	110503					
8617-	OMITI	23456	110601	110602	110603					
8618-	OMITI	23456	110701	110702	110703					
8619-	OMITI	23456	110801	110802	110803					
8620-	OMITI	23456	110901	110902	110903					
8621-	OMITI	23456	111001	111002	111003					
8622-	OMITI	23456	111101	111102	111103					
8623-	OMITI	23456	111201	111202	111203					
8624-	OMITI	23456	111301	111302	111303					
8625-	OMITI	23456	111401	111402	111403					
8626-	OMITI	23456	111501	111502	111503					
8627-	OMITI	23456	111601	111602	111603					
8628-	OMITI	23456	111701	111702	111703					
8629-	OMITI	123456	8011	8012	8013	8014	8015	8016	8017	
8630-	OMITI	123456	8031	8032	8033	8034	8035	8036	8037	
8631-	OMITI	123456	8051	8052	8053	8054	8055	8056	8057	
8632-	OMITI	123456	8134							
8633-	OMITI	123456	8351	8352	8353	8354	8355	8356	8357	
8634-	PBAR	5517	5517	.63	.349	.037	.0103	.0		
8635-	PBAR	6400	8400	.242	.0260	.0180	.0000613	.0000613		
8636-	PBAR	6410	8400	.054	.0028	.0025	.000014	.000014		
8637-	PBAR	8420	8400	.324	.0126	.3690	.0000779	.0000779		
8638-	PBAR	8430	8400	.162	.0063	.184	.0000388	.0000388		
8639-	PBAR	8440	8400	.484	.0513	.0250	.0701227	.0701227		
8640-	PBAR	8450	8400	.054	.0028	.0025	.000014	.000014		
8641-	PBAR	8460	8400	.054	.0028	.0025	.000014	.000014		
8642-	PBAR	8470	8400	.324	.0126	.3680	.0000779	.0000779		
8643-	PBAR	8480	8400	.054	.0028	.0025	.000014	.000014		
8644-	PBAR	8490	8400	.054	.0028	.0025	.000014	.000014		
8645-	PBAR	8500	8400	.324	.0126	.3680	.0000779	.0000779		
8646-	PBAR	8510	8400	.054	.0028	.0025	.000014	.000014		
8647-	PBAR	8520	8400	.054	.0028	.0025	.000014	.000014		
8648-	PBAR	8530	8400	.324	.0126	.3690	.0000779	.0000779		
8649-	PBAR	8540	8400	.054	.0028	.0025	.000014	.000014		
8650-	PBAR	8550	8400	.324	.0126	.3680	.0000779	.0000779		
8651-	PBAR	8560	8400	.054	.0028	.0025	.000014	.000014		
8652-	PBAR	8570	8400	.324	.0126	.3690	.0000779	.0000779		
8653-	PBAR	8580	8400	.054	.0028	.0025	.000014	.000014		
8654-	PBAR	8590	8400	.324	.0126	.3680	.0000779	.0000779		
8655-	PBAR	8600	8400	.054	.0028	.0025	.000014	.000014		

EXTREME TANK W. FLUID
HARMONIC REDUCTION

JULY 19, 1974 NASTRAN 5/13/72

SORTED BULK DATA ECHO

CARD	1	2	3	4	5	6	7	8	9	10
CJUNIT										
8551-	PEAR	8550	8A00	.324	.0126	.3680		.0000779		
8552-	PLOTEL 91	5091	5092	5094	94	5092	5094	5095		
8553-	PLOTEL 93	5093	5094	5094	94	5094	5094	5095		
8554-	PLCTEL 95	5095	5096	5096	96	5096	5096	5097		
8555-	PLOTEL 97	5097	5098	5098	98	5098	5098	5099		
8556-	PLOTEL 250	8250	8251	8251	251	8251	8252	8252		
8557-	PLOTEL 252	8252	8253	8253	253	8253	8253	8254		
8558-	PLCTEL 254	8254	8255	8255	255	8255	8255	8256		
8639-	PLOTEL 256	8256	8257	8257	257	8257	8257	8258		
8640-	PQUAD2 8004	8517	8010	8010	80	8517	8517	.016		
8641-	PQUAD2 8111	8517	8010	8010	.0	8517	8517	.016		
8642-	PQUAD2 8010	8010	8010	8010	.0	8010	8010	.016		
8643-	PQUAD2 8111	8010	8010	8010	.020	8010	8010	.016		
8644-	PQUAD2 8072	8072	8010	8010	.020	8072	8072	.016		
8645-	PQUAD2 8092	8092	8010	8010	.055	8092	8092	.016		
8646-	PQUAD2 8112	8112	8010	8010	.048	8112	8112	.016		
8647-	PQUAD2 8150	8150	8010	8010	.025	8150	8150	.016		
8648-	PQLAD2 8151	8151	8010	8010	.025	8151	8151	.016		
8649-	PQUAD2 8153	8153	8010	8010	.057	8153	8153	.016		
8650-	PQUAD2 8150	8150	8010	8010	.016	8150	8150	.016		
8671-	PQUAD2 8230	8230	8010	8010	.021	8230	8230	.016		
8672-	PQUAD2 8330	8330	8010	8010	.022	8330	8330	.016		
8673-	PTRIA2 5055	5517	5517	5517	.0	5517	5517	.016		
8674-	PTRIA2 5113	5517	5517	5517	.0	5517	5517	.016		
8675-	PTRIA2 8000	8010	8010	8010	.020	8010	8010	.016		
8676-	PTRIA2 8001	8010	8010	8010	.020	8010	8010	.016		
8677-	SPC1 1	2	8140	8209	8299	8328	8341	8359		
8678-	SPC1 1	6	101600	111700	111700	8360	8360	8360		
8679-	SPC1 1	246	5001	5204	8001	8440	8440	8440		
8680-	SPC1 1	246	8010	8018	8030	8038	8050	8058		
8681-	SPC1 1	246	8350	8358	8358	8358	8358	8358		
8682-	SPC1 1	246	100700	100800	100900	100900	100900	100900		
8683-	SPC1 1	246	110100	110200	110300	110400	110500	110600		
8684-	SPC1 1	246	110700	110800	110900	111000	111100	111200		
8685-	SPC1 1	246	111300	111300	111300	111300	111300	111300		
8686-	SPC1 1	345	100200	100300	100400	100500	100600	100600		
8687-	SPC1 1	345	101000	101100	101200	101300	101400	101500		
8688-	SPC1 1	345	101600	101600	101600	101600	101600	101600		
8689-	SPC1 1	345	111400	111500	111600	111700	111700	111700		
8690-	SPC1 1	100701	111301	111301	111301	111301	111301	111301		
8691-	SUPCRT	1	1	1	1	1	1	1		
8692-	ENDCATA									
8693-										

EXTERNAL TANK 40 FLUID
HARMONIC REDUCTION

JULY 19, 1976 NASTRAN 5/13/72

N A S T R A N S O U R C E P R O G R A M C O M P I L A T I O N
DMAP-DMAP INSTRUCTION
NO.

- 1 BEGIN N3.3 NGRMAL MODES ANALYSIS - SERIES M \$
- 2 FILE LLL=TAPE \$
- 3 GPI GE3J1,GECH2,/GFL,EOEXIN,GFCT,CSTM,BGPD,T,SIL/V,N,LUSET/ C,N,
123/V,N,NOGRPT \$
- 4 SAVE LUJET \$
- 5 CHKPT GPL,EOEXIN,GPDT,CSTM,BGPD,T,SIL \$
- 6 GP2 GECH2,EOEXIN/ECT \$
- 7 CHKPT ECT \$
- 8 PLTSET PCDB,EOEXIN,ECT/PLTSETX,PLTPAR,GPSETS,ELSETS/V,N,NSIL/
JUNFPLOT \$
- 9 SAVE NSIL,JUNFPLOT \$
- 10 PFTMSG PLTSETX// \$
- 11 SETVAL //V,N,PLTFLG/C,N,1/V,N,PPFILE/C,N,0 \$
- 12 SAVE PLTFLG,PPFILE \$
- 13 COND P1, JUNFPLOT \$
- 14 PLOT PLTPAR,GPSETS,ELSETS,CASECC,BGPD,T,EOEXIN,SIL,./PLOTX1/ V,N,
NSIL/V,N,LUSET/V,N,JUNFPLOT/V,N,PLTFLG/V,N,PPFILE \$
- 15. SAVE JUNFPLOT,PLTFLG,PPFILE \$
- 16 PLTMSG PLOTX1// \$
- 17 LABEL P1 \$
- 18 CHKPT PLTPAR,GPSETS,ELSETS \$
- 19 GPJ GECH3,EOEXIN,GECH2/,GPT1/C,N,123/V,N,NOGRAV/C,N,123 \$
- 20 CHKPT GPTT \$
- 21 TAIL ,ECT,EFT,BGPD,T,SIL,GPT1,CSTM/EST,GET,ECT,GPCT/V,N,LUSET/ C,N,
123/V,N,NOSSIMP/C,N,0/V,N,NOGENL/V,N,GENEL \$
- 22 SAVE NOGENL,NOSSIMP,GENEL \$

ORIGINAL PAGE IS
OF POOR QUALITY

JULY 19, 1974 NASTRAN 5/13/72

EXTERNAL TANK W. FLUID
IONIC REDUCTION

N A S T R A N S E R C E P R O G R A M C O M P I L A T I O N

DMAP-DMAP INSTRUCTION
NO.

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23 COND ERROR1,NOSIMP $
24 PURGE G3PST/GENEL $
25 CHKPNT EST,ECPT,GPCT,GEI,OGPST $
26 SMA1 C3TV,MPT,ECPT,GPCT,DIT/KGGX,GPST/V,N,NOGENL/V,N,NOK4GG $
27 CHKPNT KGGX,GFST $
28 SMA2 C3TW,MPT,ECPT,GPCT,DIT/MGG,V,Y,WTMASS=1.0/V,N,NOMGG/V,N,NOBGG/
V,Y,CJUFMASS/V,Y,CBBAR/V,Y,CPCED/V,Y,CPOUAD1/V,Y,CPOUAD2/ V,
Y,CPTRIAL/V,Y,CPTRIAL2/V,Y,CPTURE/V,Y,CPOORLT/V,Y,CPTRPLT/ V,Y,
C3TRB5C $
29 SAVE N3VGG $
30 COND ERROR1,NOMGG $
31 CHKPNT VGG $
32 COND LSPWG,GRDPNT $
33 GPWG 9G=DT,CSTN,EOEXIN,MGG/LGFWG/V,Y,GRDPNT=-1/V,Y,WTMASS $
34 OFP GSP#G.....//V,N,CARDNC $
35 SAVE CAROND $
36 LABEL LGPWG $
37 EQUIV KGGX,KGG/NOGENL $
38 CHKPNT KGG $
39 COND L3L11,NOGENL $
40 SMA3 GEI,KGGX/KGG/V,N,LUSET/V,N,NOGENL/V,N,NOSIMP $
41 CHKPNT KGG $
42 LABEL L9L11 $
43 PARAM //C,N,MPY/V,N,NSKIP/C,N,G/C,N,0 $
44 GPA CA/ECC,GEOMA,EOEXIN,SIL,GRDT/RG,USET,/V,N,LUSET/V,N,MPCF1/ V,
N,MPCF2/V,N,SINGLE/V,N,CWIT/V,N,REACT/V,N,NSKIP/V,N,REPEAT/
V,Y,NOSET/V,N,NOL/V,N,NOA $
45 SAVE MPCF1,MPCF2,SINGLE,DM11,REACT,NSKIP,REPEAT,NOSET,NOL,NOA $
    
```

EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

N A S T R A N S O U R C E P R O G R A M C O M P I L A T I O N

DMAP-DMAP INSTRUCTION
NO.

- 46 COND ERROR3,NOL \$
- 47 PURGE KRR,KLR,DM,MLR,MR/REACT/GM/MPCF1/GO/OMIT/KFS/SINGLE/OG/NOSET \$
- 48 EQUIV KGS,KNA/MPCF1/MGG,MNA/MPCF1 \$
- 49 CHKENT KRR,KLR,DM,MLR,MR,GM,RC,GO,KFS,OG,USET,KNN,MNN \$
- 50 COND L3L4,GENEL \$
- 51 GPSP SPL,GPST,USET,SIL/GBPST \$
- 52 QFP QPST,...../V,N,CARDAC \$
- 53 SAVE CARDNO \$
- 54 LABEL L3L4 \$
- 55 COND L3L2,MPCF2 \$
- 56 MCE1 USET,RG/GM \$
- 57 CHKENT GV \$
- 58 MCE2 USET,GM,KGG,MGG,./KNN,MNN, \$
- 59 CHKENT KNN,MNN \$
- 60 L3L4 L3L2 \$
- 61 EQUIV KNN,KFF/SINGLE/MNN,MFF/SINGLE \$
- 62 CHKENT KFF,MFF \$
- 63 COND L3L3,SINGLE \$
- 64 SCE1 USET,KNN,MNN,./MFF,KFS,./MFF, \$
- 65 CHKENT KFS,KFF,MFF \$
- 66 LABEL L3L3 \$
- 67 EQUIV KFF,KAA/OMIT/ MFF,MAA/OMIT \$
- 68 CHKENT KAA,MAA \$
- 69 COND L3L5,OPIT \$
- 70 SHPI USET,KFF,./GO,KAA,KCC,LCC,UOO,..... \$

ORIGINAL PAGE IS
OF POOR QUALITY

JULY 19, 1974 NASTRAN 5/13/72

EXTERNAL TANK W, FLUID
HARMONIC REDUCTION

NASTRAN SOURCE PROGRAM COMPILATION

DMAP-DMAP INSTRUCTION
NJ.

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71  CHKPNY  GO,XAA $
72  SMP2    USET,GO,NEF/HAA $
73  CHKPNY  WAA $
74  LABEL  L3L5 $
74  ADD WAA,VELD/MAH $
74  PARAM  /C,N,NOP/V,N,TRUE=-1 $
74  EQUIV  MAH,WAA/TRUE $
74  CCND  MAH03,TQUE $
74  MATPRN MAH,,,// $
74  LABEL  MAH09 $
75  CCND  L3L5,REACT $
76  REWGI  USET,KAA,MAA/KLL,KLR,KFF,WLL,WLR,MRR $
77  CHKPNY  KLL,NLR,KRR,WLL,WLR,MRR $
78  REWGI  KLL/WLL,ULL $
79  CHKPNY  ULL,LLL $
80  REWGI  LLL,ULL,KLR,KRR/DM $
91  CHKPNY  DM $
82  REWGI  DM,WLL,WLP,MRR/MR $
83  CHKPNY  MR $
84  LABEL  L3L6 $
85  DPD  OYJAMICS,GPL,SIL,USET/EPLD,SILC,USETD,,,,,EED,EODYN/V,N,
      LUSET/V,N,LUSETD/V,N,ACTFL/V,N,NODLT/V,N,NOPSDL/V,N,NOFRL/
      V,N,CONFLT/V,N,NCTRL/V,N,NCEED/C,N,123/V,N,NOUE $
86  SAVE  NTEED $
87  CCND  ER10R2,NOEED $
88  CHKPNY  EEO $
    
```

NASTRAN SOURCE PROGRAM COMPILATION

DNAP-DNAP INSTRUCTION
NO.

- 88 SEEMAT MGG,KGG,.,.,./C,N,PRINT \$
- 89 READ KAA,MAA,MR,DM,EED,USET,CASECC/LAMA,PHIA,MI,DEIGS/C,N,MODES/V,N,
NEIGV \$
- 90 SAVE NEIGV \$
- 91 CHKPNT LAMA,PHIA,MI,DEIGS \$
- 91 MATGPR GPL,USIET,SIL,PHIA//C,N,A
- 92 DFP LAMA,DEIGS,.,.,./V,N,CAFDC \$
- 93 SAVE CAROND \$
- 94 CCND FINIS,NEIGV \$
- 95 SDR1 USET,PHIA,.,.,GD,GN,KFS,./PHIG,.,OG/C,N,1/C,N,REIG \$
- 96 CHKONT PHIG,OG \$
- 97 PARAM /C,N,SUB/V,N,SCALAR/V,N,SIL/V,N,LUSET \$
- 98 EQUIV SIL,SIP/SCALAR/BGPD,EGPCP/SCALAR \$
- 99 CHKPNT SIP,SGFDP \$
- 100 CCND L3L7,SCALAR \$
- 101 PLTRAN 93PDT,SIL/BGPD,SIP/V,N,LUSET/V,N,LUSEP \$
- 102 SAVE LUSEP \$
- 103 CHKPNT 83DEP,SIP \$
- 104 LABEL L3L7 \$
- 105 SC-2 CASECC,CSTM,NF1,DIT,EGEXIN,SIL,.,.,BGPD,LAMA,OG,PHIG,EST,./,OOGI,
PHIG,DESI,DEF1,PPHIG/C,N,REIG \$
- 106 DFP 0PHIG,OOGI,DEF1,DESI,.,./V,N,CAFDC \$
- 107 SAVE CAROND \$
- 107 SMPYAD PHIA,KAA,PHIA,.,./KH/C,N,2/C,N,1/C,N,1/C,N,2/C,N,1 \$
- 107 SOLVE MI,KH/WH/C,N,1 \$
- 107 SMPYAD 0DU2,PT A,WH,.,./FD2/C,N,2 \$

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EXTERNAL TANK W. FLUID
HARMONIC REDUCTION

N A S T R A N S O U R C E P R O G R A M C O M P I L A T I O N

DWAP-DMAP INSTRUCTION
NO.

107 MATPRN MH,PD2,.,.// \$
108 CGND P1,JUMPPLOT \$
109 PLOT PLTPAR,GPSETS,ELSETS,C/SECC,BGFD,EGEXIN,SIP,PPHIG / PLOTX2/
V,1,NSIL/V,N,LLSET/V,N,JUMPPLOT/V,N,PLTLG/V,N,PFIL \$
110 SAVE PFILE \$
111 PFTMSG PLDTX2// \$
112 LABEL P1 \$
113 JUMP P111 \$
114 LABEL ERROR1 \$
115 PETPAR4 //C,N,-1/C,N,MCDES \$
116 LABEL ERROR2 \$
117 PETPAR4 //C,N,-2/C,N,MCDES \$
118 LABEL ERROR3 \$
119 PETPAR4 //C,N,-3/C,N,MCDES \$
120 LABEL P111 \$
121 END \$

-10 ERRORS FOUND - EXECUTE NASTRAN PROGRAM