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Page 1 of _____ 1. EDT 626262

2. To:	(Receiving Orga	nization)		3. From: (Originating Organ	ization)	4. Related	EDT No	.:	
Distri	bution			SNF Projec	xt			N/.	A	
5. Pro	j./Prog./Dept./Div	.:		6. Design Authority/ Design Agent/Cog. Engr.:			7. Purchase Order No.:			
Spent	Nuclear Fuel Proj	ject		C. Van Ka	twijk			N/.	A	
8. Ori	ginator Remarks:	. 1					9. Equip./	Compone	ent No.:	
N/A								N/.	A	
	1. ¹ .						10. System	1/Bldg./F	acility:	
							Sp	ent Nucle	ar Facilit	ty
11. Re	eceiver Remarks:	11A. D	esign Base	eline Docun	nent? [] Yes [X]	No	12. Major	Assm. D	wg. No.:	
								N/.	A ·	
							13. Permi			on No.:
								N/.	-	
•					•		14. Requi	-		:
								N/.	A	
15.		· ,	DATA 1	RANSMIT	TED		(F)	(G)	(H)	(1)
(A)	(B) Document/Dra	awing No.	(C) Sheet	(D)	(E) Title or Des Trans		Approval Desig-	Reason for	Origi-	Receiv-
Item No.			No.	Rev. No.	rans	niuea	nator	Trans-	nator Dispo-	er Dispo-
								mittal	sition	sition
1	SNF-3889			0	Rosemount Indicator Helium Supply Press		Q	2	1	N/A
	l							l		
16.					KEY					
	oval Designator (F)			for Transmittal	I (G)	1. 4		n (H) & (I)		
	D or N/A IC-CM-3-5	1. Approval 4. Review 1. Approved 2. Release 5. Post-Review 2. Approved w/com			4. Reviewed no/comment mment 5. Reviewed w/comment					

Sec.12.	7)	3. Information 6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment 6. Receipt acknowledged
		17. SIGNATURE/DISTRIBU (See Approval Designator for requin	
(G) Rea- son	(H) Disp.	(J) Name (K) Signature (L) Date (M) MSIN (G) Rea- Son	(H) (J) Name (K) Signature (L) Date (M) MSIN Disp.
2	1	Designated Engineer C. Van Katwijk Van Katwigh	
2	1	Design Authority R. Whitehurst (100 - 3/3./99	
2	1	QA T.D. Hays TO Hayo 3130199	

21. DOE APPROVAL (if required) 19. 18. 20 Rum Ctrl. No. 1 T. Choho R. Whitehurst [] Approved **6**. Van <u>k</u> Signature of EPT Originator $\overline{\mathbf{c}}$ 30/99 2 -9-Date 30 k [] Approved w/comments 99 Authorized Representative Date Disapproved w/comments Design Authority/ Date for Receiving Organization Cognizant Manager

Rosemount Indicator / Transmitter – Helium Supply Pressure to the MCO

Carl Van Katwijk Numatec Hanford Co, Richland, WA 99352 U.S. Department of Energy Contract DE-AC06-96RL13200

EDT/ECN: 626262 Org Code: 2G300 B&R Code: 39EW40400 UC: 620 Charge Code: 105559/A00 Total Pages: 4

Key Words: Pressure Indicator / Transmitter - MCO

Abstract: Rosemount Indicator / Transmitter – Helium supply Pressure to the MCO CGI-SNF-D-13-P4-013

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

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Release Stamp

DATE STAY

Approved for Public Release

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Commercial	Grade	Item	Unorad	le De	edication	Form

ECN No. NA CGI No. CGI-SNF-D-13-P4-013

Title: ROSEMOUNT INDICATOR/TRANSMITTER - HELIUM SUPPLY

PRESSURE TO THE MCO

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Section 1 Part Information						
Item No.: NA	Manufacturer:		Supplier:			
Mfg. Part/Model No.:	/lfg. Part/Model No.: Supplier's P/N:					
Part Description:						
End Use Description:						
	Section 2a Compo	nent Information				
Equipment No.: He-PT- 1*34	Specification No.: W-441- P4, Rev. 2	Manufacturer: Rosemount		Past P.O. No.: NA		
Manufacturer's Part/ Model	Equipment Supplier (if differen	t from manufacturer):	TBD	Equip. Supplier's Part No.: NA		
Component Description: Press purge pressure. Electron			ısmit sig	nal of MCO helium		
· · ·	Section 2b Qualified V					
1. Is the Item available from	a catalog from a qualified NQA1	or ISO 9000 supplier (« ۱2/21/۹۶ میل	coordinate	with project CGI interface		
Engineer or BTR)?	ł.	erk 12/21/98				
[] YES (go to #2 be	elow)					
[X] NO (go to proce	dure step 5.3.2, proceed to dec	licate item.)				
2. List of Candidate qualified company name and ty	pe contact name	12/21/98 pho	ne			
NA						
3. Recommended Procureme	nt Strategy (coordinate with proj	ect CGI interface Engir	neer or BT	R):		
NA .						
	Section 20	CGI Determination				
1. Question #1: Is the Item su	bject to design or specification r	equirements that are u	nique to n	uclear facilities or activities?		
[] YES (the Item is r	not commercial grade)					
[X] NO (continue)	[X] NO (continue)					
	sed in applications other than nu	clear facilities or activit	ties?			
	t commercial grade)					
[X] YES (continue)						

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Title: ROSEMOUNT INDICATOR/TRANSMITTER - HELIUM SUPPLY					
PRESSURE TO THE MCO	· · · · · · · · · · · · · · · · · · ·				
 Question #3: Is the Item ordered from manufacturer/supplier on the basis or specificat catalog? NO (the Item is not commercial grade) 	ons set forth in the manufacturers				
[X] YES (continue)					
[X] All three criteria have been satisfied. The Item meets the definition of commercia	al arade				
Section 2d Reason for Dedication The above described Item is being Dedicated for use in the application cited for t	he following reason(s):				
[X] Item is being purchased from a non ESL manufacturer supplier as commercial gra application.	de to be used in a Safety Class				
[] Item is being purchased from a non ESL manufacturer supplier as commercial gra Significant application.	de to be used in a Safety				
[] Item was purchased from a non ESL manufacturer supplier as commercial grade application.	o be used in a Safety Class				
[] Item was purchased from a non ESL manufacturer supplier as commercial grade 1 application.	o be used in a Safety Significant				
[] Other ('like-for-like', similar, substitution, replacement evaluation)					
Section 3 Failure Effects Evaluation					
A. Part/Component Safety Function:					
1. Pressure Boundary Integrity, Confinement					
2. Maintain Pressure Boundary After Seismic Event 3.	·				
B. Part/Component Functional Mode: Safety Function #1:					
 Active – Mechanical or Electrical change of state is required to occur for the function 	component to perform its safety				
[X] Passive – Change of state is not required for the component to perform its s Safety Function #2:	afety function				
 Active – Mechanical or Electrical change of state is required to occur for the function. 	component to perform its safety				
[X] Passive – Change of state is not required for the component to perform its s Safety Function #3:	safety function				
[] Active – Mechanical or Electrical change of state is required to occur for the function.	component to perform its safety				
[] Passive – Change of state is not required for the component to perform its s	afety function				
C. Host Component Safety Function (if applicable): 1. NA					
2.					
3.					

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Title: ROSEMOUNT INDICATOR/	RANSMITTER - HELIUM SUPPLY			
PRESSURE TO THE MCO				
		- July		
	on component or system safety function (see w			
 PI process connection break/l the pressure boundary. 	PI body break - inleakage of air/ releas	e of MCO contents through		
2. ·				
3.				
4.				
5.				
	Environmental & Natural Phenomena Hazard D	əsiqn		
Environmental Qualification Required:		ualification Requirements		
Yes []	Limiting Environmental	Conditions:		
No [X] Required Safety Functi				
Environmental Condition B	Qualification Period:			
Natural Phenomena Hazard (NPH) Desigr	Required: If yes: NPH Design Req	uirements		
Yes [X]				
No []	NPH Design Req'ts.: Seismic Condition B			
HNF-PRO-97, Rev. 0	Required Safety Functions: Pressure Boundary			
W-441-P4, Rev. 2	Integrity, Confinen	ent		
11 4 1 1 1 1 1 1 1 1 1 1		'n		
	Section 5 Component Functional Classification	<i>a</i> 1		
[X] Safety Class (SC)		[] Safety Significant (SS)		
[X] Safety Class (SC)				
[X] Safety Class (SC)	[]General Service			
[X] Safety Class (SC)	[]General Service			
[X] Safety Class (SC)	[]General Service			
[X] Safety Class (SC)	[]General Service			
[X] Safety Class (SC)	[]General Service from host component/system, document basis.			
[X] Safety Class (SC)	[]General Service from host component/system, document basis. Section 6 [reserved]			
[X] Safety Class (SC) If part/component classification is different	[]General Service from host component/system, document basis. Section 6 [reserved] Section 7 [reserved]			
[X] Safety Class (SC) If part/component classification is different	[]General Service from host component/system, document basis. Section 6 [reserved] Section 7 [reserved] on 8 References (for Functional Classification)	[] Safety Significant (SS)		
[X] Safety Class (SC) If part/component classification is different Sect National Codes/Standards: IEEE 344,	[]General Service from host component/system, document basis. Section 6 [reserved] Section 7 [reserved] ion 8 References (for Functional Classification) Safety Analysis Report (SAR): Dr	[] Safety Significant (SS) awings: H-1-82161, Rev. 2		
[X] Safety Class (SC) If part/component classification is different	[]General Service from host component/system, document basis. Section 6 [reserved] Section 7 [reserved] ion 8 References (for Functional Classification) Safety Analysis Report (SAR): Dr HNF-SD-SNF-SAR-002, HI	[] Safety Significant (SS)		
[X] Safety Class (SC) If part/component classification is different Sect National Codes/Standards: IEEE 344,	[]General Service from host component/system, document basis. Section 6 [reserved] Section 7 [reserved] ion 8 References (for Functional Classification) Safety Analysis Report (SAR): Dr	[] Safety Significant (SS) awings: H-1-82161, Rev. 2		
[X] Safety Class (SC) If part/component classification is different Sect National Codes/Standards: IEEE 344, ISA-S5.1, S5.4, S18.1, S20	[]General Service from host component/system, document basis. Section 6 [reserved] Section 7 [reserved] ion 8 References (for Functional Classification) Safety Analysis Report (SAR): Dr HNF-SD-SNF-SAR-002, HI	[] Safety Significant (SS) awings: H-1-82161, Rev. 2 NF-SD-SNF-SEL-002, Rev. 4		

Other:

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Title: ROSEMOUNT INDICATOR/TRANSMITTER - HELIUM SUPPLY

PRESSURE TO THE MCO

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	Section 9 Critical Characteristics			
Critical Characteristics	Acceptance Criteria/Tolerances	Acceptance	ID	Function
Verification Document: VENDOR SPECIFICATIONS.		Method		
HNF-SD-SNF-SEL-002, Rev. 4				
1. Item Identification Critical Characteristics	s (necessary for reasonable assurance that the	Item delivered i	s the Iter	n specified)
Nameplate Data	Per Vendor Manual	1,IN	x	
Model Number	1153GB5PB	1,IN	x	
Enclosure Class	NEMA-4X	1,IN	x	
Manufacturer	Rosemount	1,IN	x	
Process Connection	1/4-18 NPT	1,IN	x	
2. Physical Critical Characteristics (necess	ary for reasonable assurance that the Item deli	vered is the Item	specifie	d)
Material, Body	Stainless Steel	1,T	x	
Material, Process Connection	Stainless Steel	1,T	x	
Indicator, LCD Display	0-100%	1,IN	x	
Bracket	Panel Mount	1,IN	x	
 Performance Critical Characteristics (n safety function(s)) 	ecessary & sufficient for reasonable assurance	that the Item wi	l perform	n its intended
Pressure Boundary Integrity	No Leakage at Test Pressure of 165 Psig. Note 2.	1,T		x
Insulation Resistance	NA	1		
Operating Range	NA			
Repeatability	NA			
Environmental	Note 1			
Seismic Condition B	Note 3	1,T		x
Operating Range	NA			

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Title: ROSEMOUNT INDICATOR/TRANSMITTER - HELIUM SUPPLY	_	
PRESSURE TO THE MCO		J
4. Notes and Legend:	Acceptance Method:]
1. The pressure indicator is not subject to degradation at ambient	1. Special Test and Inspection	
conditions of 40°F and 60% RH or 115°F and 22% RH and is suitable for Environmental Condition B application.	1,IN for Inspection	
2. Pressure test at 110% of design accident condition pressure of	1,T for Test	
150 psig. Exposure to this pressure may seriously degrade the	2. Commercial Grade Survey	
reading function. This test is considered to be a destructive	3. Source Verification	
test.	4. Vendor/Item History	
3. Maintain pressure boundary after Seismic event. W-441-P4,		
Rev. 2, Appendix L, page L-14, provides a seismic testing plan		
"Confinement" leakage acceptance criteria is $< 10^{-4}$ scc/sec.		

Section 10 Initial Review and Approval

1.15

TD Hay 12/22/98

42/21/98

Approvals:

Design Authority:

QA Engineer:

Designated Engineer: Com Holing

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Title: ROSEMOUNT INDICATOR/TRANSMITTER - HELIUM SUPPLY

PRESSURE TO THE MCO

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	WORKSHEET 1 DETERMINATION OF FAILURE MECHANISMS/	MODES
	SECTION 1	
Typical Failure Mechanisms	Definition	Applicable to Component under Evaluation
Fracture	Separation of a solid accompanied by little or no macroscopic plastic deformation.	Yes [] No [X]; If Yes, indicate failure Mode
Corrosion	The gradual deterioration of a material due to chemical or electrochemical reactions, such as oxidation. between the material and its environment.	Yes [] No [X]; If Yes, indicate failure Mode.
Erosion	Destruction of materials by the abrasive action of moving fluids, usually accelerated by the presence of solid particles carried with the fluid.	Yes [] No [X]; If Yes, indicate failure Mode.
Open Circuit	An electrical circuit that is unintentionally broken so that there is no complete path for current flow.	Yes [] No [X]; If Yes, indicate failure Mode.
Short Circuit	An abnormal connection by which an electrical current is connected to ground, or to some conducting body, resulting in excessive current flow.	Yes [] No [X]; If Yes, indicate failure Mode.
Blockage	Clogging of a filtering medium resulting in the inability to perform its purification function or blockage of flow.	Yes [] No [X]; If Yes, indicate failure Mode.
Seizure	Binding of a normally moving item through excessive pressure, temperature, friction, jamming.	Yes [] No [X]; If Yes, indicate failure Mode.
Unacceptable Vibration	Mechanical oscillations produced are beyond the defined permissible limits due to unbalancing, poor support, or rotation at critical speeds.	Yes [] No [X]; If Yes, indicate failure Mode.
Loss of Properties	A loss of mechanical and physical properties of a material due to exposure to high temperatures, radiation excosure.	Yes [] No [X]; If Yes, indicate failure Mode.
Excess Strain	Under the action of excessive external forces the material of the part has been deformed or distorted.	Yes [] No [X]; If Yes, indicate failure Mode.
Mechanical Creep	From prolonged exposure to high temperature and stress, the object will show a slow change in its physical (shape and dimension) and mechanical characteristics.	Yes [] No [X]; If Yes, indicate failure Mode.
Ductile Fracture	Fracture characterized by tearing of metal accompanied by appreciable gross plastic deformation.	Yes [] No [X]; If Yes, indicate failure Mode.
Secti	on 2 Additional Failure Modes Applicable to the Compon	ent Under Evaluation
1. Gauge Movemen	t Mechanism Failure	
. Jauge woverlien		
2. Process Connect	ion/Body Break	

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PRESSURE TO THE MCO	

CHECKLIST 1 ACCEPTANCE METHOD 1

SPECIAL	TEST/INSPI	ECTION	VERIFICATION

		S	ECTION 1
		ssure Indicator/ m Supply Pressure to the	Equip #: He-PT-1*34 Model #: 1153GB5PB
System #: 13	;		
Ma	nufacture	er (Address/Phone):	Supplier (Address/Phone):
Rosemount			
P.O. #			
	SECTIC	ON 2 CRITICAL CHARACT	ERISTICS TO BE VERIFIED BY METHOD 1
Insp Test	Post- Test		
[X] []	[]	1. Nameplate Data	
[X] []	[]]	2. Model Number	
[X] []	[]]	3. Enclosure Class	
[X] []	[]	4. Manufacturer	
[X] []	[]	5. Process Connection	
[] [X]	[1]	6. Material, Body	
[X] [X]	[]	7. Material, Process Cor	nection
[X] []	[1]	8. Indicator, LCD Displa	У
[X] []	[[]]	9. Bracket	
[] [X]	[1]	10. Pressure Boundary In	tegrity
	[1]	11. Insulation Resistance	
	[]]	12. Operating Range	
	[[]]	13. Repeatability	
[] [X]	[1]	14. Seismic Condition B	
	[]]	15. Operating Range	

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PRESSURE TO THE MCO	

SECTION 3 BY IN	SPECTION
* See Attachment G of Desk Instruction for Sampling Size	
Characteristic: Nameplate Data	
Sample Size*: All Items	
Acceptance Criteria: Per Vendor Manual	
Receipt Inspection Plan / Report #:	
References (see Section 7):	
Characteristic: Model Number	
Sample Size*: All Items	
Acceptance Criteria: 1153GB5PB	
Receipt Inspection Plan / Report #:	
References (see Section 7):	·
Characteristic: Enclosure Class	
Sample Size*: All Items	
Acceptance Criteria: NEMA-4X	
Receipt Inspection Plan / Report #:	
References (see Section 7):	
Characteristic: Manufacturer	
Sample Size*: All Items	
Acceptance Criteria: Rosemount	
Receipt Inspection Plan / Report #:	
References (see Section 7):	
Characteristic: Process Connection	
Sample Size*: All Items	
Acceptance Criteria: 1/4-18 NPT	
Receipt Inspection Plan / Report #:	· · ·
References (see Section 7):	
Characteristic: Indicator, LCD Display	
Sample Size*: All Items	
Acceptance Criteria: 0-100%	
Receipt Inspection Plan / Report #:	
References (see Section 7):	

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PRESSURE TO THE MCO]
Characteristic: Bracket			
Sample Size*: All Items			
Acceptance Criteria: PANEL MOUNT			
Receipt Inspection Plan / Report #:			
References (see Section 7):			
	4 BY SPECIAL TEST		
* See Attachment G of Desk Instruction for Samplin	ng Size Number of Items to be Teste	1.	
Test To Be Performed by:	Number of Items to be Teste	a:	
[] Purchaser	Test/Inspection Location:		
[] Supplier/Manufacturer**			
[] Other		·····	
Characteristic for Test: Material, Body			
Acceptance Criteria: Stainless Steel			
Sample Size*: Normal Sampling Size			
Actual Test Value:			
Test Plan and Report #:	References (see Section	n 7):	
Characteristic for Test: Material, Process Conne	ction		
Acceptance Criteria: Stainless Steel			
Sample Size*: Normal Sampling Size			
Actual Test Value:			
Test Plan and Report #:	References (see Section	on 7):	
Characteristic for Test: Pressure Boundary Integ	rity		
Acceptance Criteria: No Leakage at Test Pressu	re of 165 Psig		
Sample Size*: Destructively Test Only One Iter	m		
Actual Test Value:			
Test Plan and Report #:	References (see Section	on 7):	
Characteristic for Test: Seismic Condition B			
Acceptance Criteria: Maintain Pressure Boundary Appendix L, page L-14, provides a seismic to spectra. "Confinement" leakage acceptance Sample Size*: Normal Sampling Size	esting plan for these comp	onents at a (TBD) seismic	2, c
Actual Test Value:			
Test Plan and Report #:	References (see Section	on 7):	

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Characteristic for Test:	
Acceptance Criteria:	
Sample Size*:	
Actual Test Value:	
Test Plan and Report #:	References (see Section 7):
Characteristic for Test	
Acceptance Criteria:	
Sample Size*:	
Actual Test Value:	
Test Plan and Report #:	References (see Section 7):
Characteristic for Test:	· · · · · · · · · · · · · · · · · · ·
Acceptance Criteria: .	
Sample Size*:	
Actual Test Value:	
Test Plan and Report #:	References (see Section 7):

**If Supplier/Manufacturer or Other, Refer to CGI Checklist-2 for Support Information

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Section 5 Test / Inspection Summary (Acceptance Method 1).

1. SUMMARY OF VERIFIED CRITICAL CHARACTERISTICS , THEIR VERIFICATION METHODS, AND RESULTS

ITEM DESCRIPTION:											
Criti	Critical Characteristics							Verifi	Verification Results		
Critical Characteristics	Acceptance Criteria/Tolerances	ß	Function	Method T/IN	Procedure or RR#	Check- list ID	Number Tested	Number Failed	Verifying Organization	Printed Name Signature	Date
Nameplate Data	Per Vendor Manual	×									
Model Number	1153GB5PB	x									
Manufacturer	Rosemount Instruments	x									
Enclosure Class	NEMA-4X	x									
Process Connection	1/4-18 NPT	x									
Material, Body	Stainless Steel	Х									
Material, Process Connection	Stainless Steel	x									
Indicator, LCD Display	0-100%	x									
Bracket	Panel Mount	x									
Pressure Boundary Integrity	No Leakage at Test Pressure of 165 Psig.		x								
Insulation Resistance	NA										
Operating Range	NA										
Repeatability	NA										
Environmental	NA										
Seismic Condition B	Maintain Pressure Boundary		x								
Operating Range	NA										

PDT 1*34

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PRESSURE TO THE MCO	

ALLED CRITICAL CHARACTERISTICS	Disposition		RUFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND IS SATISFACTORY AND COMPLETE.	BUYER VERIFICATION	Design Authority: Date Date	QA Engineer: Date
2. DISPOSITION OF UNVERIFIED OR FAILED CRITICAL CHARACTERISTICS	Critical Characteristic		3. SIGNATURE INDICATES ALL CRITICAL CHARACTERISTICS VERIFIED SATISFACTORY OR ACCEPTABLY DISPOSITIONED AND COMMERCIAL GRADE DEDICATION IS SATISFACTORY AND COMPLETE.		Testing Agency Approval: Date	Testing Agency QA Engineer: Date

12/21/98

Commercial Grade Item Upgrade Dedication Form ECN No. <u>NA</u> CGI NO. <u>CGI-SNF-D-13-P4-013</u> Title: <u>ROSEMOUNT INDICATOR/TRANSMITTER - HELIUM SUPPLY</u>

PRESSURE TO THE MCO

Name	Service Numbers Phone
Design Authority	()
QA	()
QC	()
Cog - Engineer	()
CGI Engineer	()
Procurement Engineer	()
Other	()
Section 7 Supporting Documentation for this Checklist	
Initial Procurement Documents	For Critical Characteristics
[] Drawings:	
[] Manuals (specify type & number):	
[] Design Calculations	
[] Installation Instructions	
[] Operation Instructions	
[] Calibration Instructions	
[] Manufacturer's Recommended Spare Parts List	
[] Other:	
Procurement Documents	
[] Certificate of Conformance/Compliance	
[] Seismic Qualification Certificate	
[] Environmental Qualification Certificate	
[] Test Report (s):	
[] Inspection Report (s):	
[] CMTRs for ASME Pressure Retaining Materials	
[] Valve Seat Leakage Report	
[] Weld Records	
[] Material Traceability Record	
[] Other:	

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