brought to you by  $\fbox$  CORE ed by NASA Technical Repor

513-38

## Ninth Annual NASA/Contractors Conference on Quality and Productivity N94-13160

## Title: Shared Visions: Partnership of Rockwell International & NASA Cost Effectiveness Enhancements (CEE) for the Space Shuttle System Integration Program

Presenters: Bohdan Bejmuk - Program Manager, Space Systems Division, Rockwell International Larry Williams - Program Manager, NASA - Johnson Space Center

## Abstract:

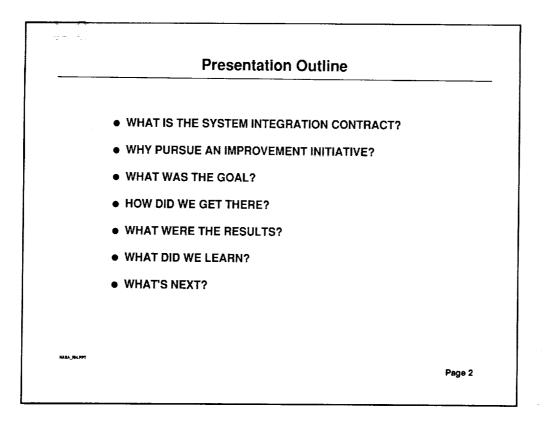
ĩ

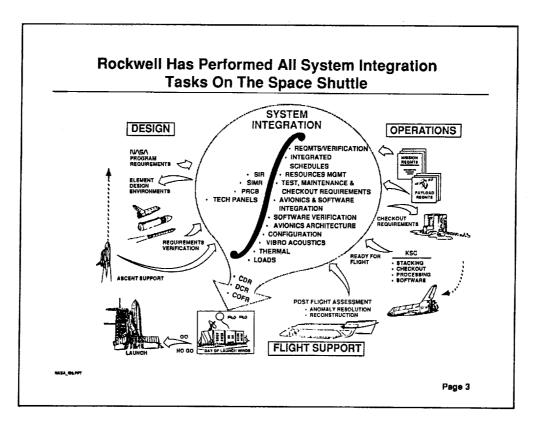
As a result of limited resources and tight fiscal constraints over the past several years, the defense and aerospace industries have experienced a downturn in business activity. The impact of fewer contracts being awarded has placed a greater emphasis for effectiveness and efficiency on industry contractors. It is clear that a reallocation of resources is required for America to continue to lead the world in space and technology. The key to technological and economic survival is the transforming of existing programs, such as the Space Shuttle Program, into more cost efficient programs so as to divert the savings to other NASA programs.

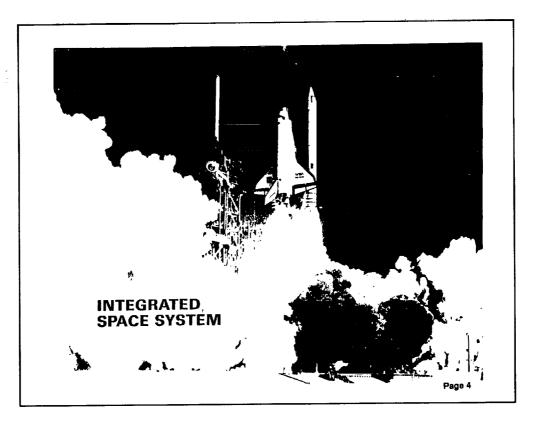
This presentation describes the partnership between Rockwell International and NASA and their joint improvement efforts that have resulted in significant streamlining and cost reduction measures to Rockwell International Space System Division's work on the Space Shuttle System Integration Contract. This work was a result of an established Cost Effectiveness Enhancement (CEE) Team formed initially in Fiscal Year 1991, and more recently expanded to a larger scale CEE Initiative in 1992. By working closely with the customer in agreeing to contract content, obtaining management endorsement and commitment, and involving the employees in TQM and continuous improvement "teams," the initial annual cost reduction target has been exceeded significantly.

The CEE Initiative helped reduce the cost of the Shuttle Systems Integration contract while establishing a stronger program based upon customer needs, teamwork, quality enhancements, and cost effectiveness. This was accomplished by systematically analyzing, challenging, and changing the established processes, practices, and systems. This examination, in nature, was work intensive due to the depth and breadth of the activity.

The CEE Initiative has provided opportunities to make a difference in the way Rockwell and NASA work together -- to update the methods and processes of the organizations. The future success of NASA space programs and Rockwell hinges upon the ability to adopt new, more efficient and effective work processes. Efficiency, proficiency, cost effectiveness and teamwork are a necessity for economic survival. Continuous improvement initiatives like the CEE are, and will continue to be, vehicles by which the road can be traveled with a vision to the future.

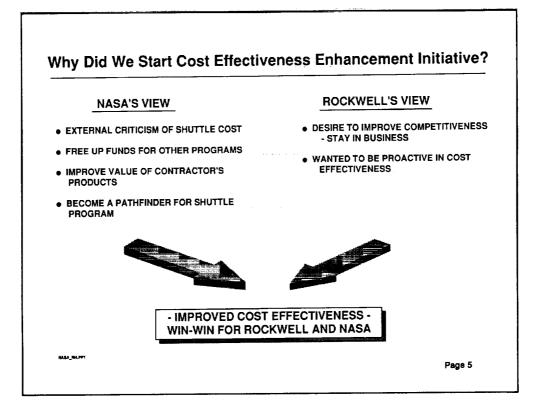


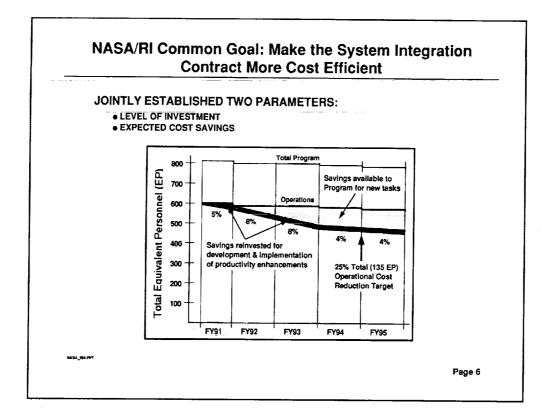


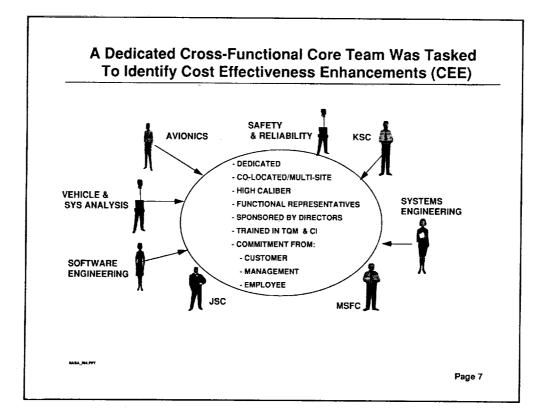


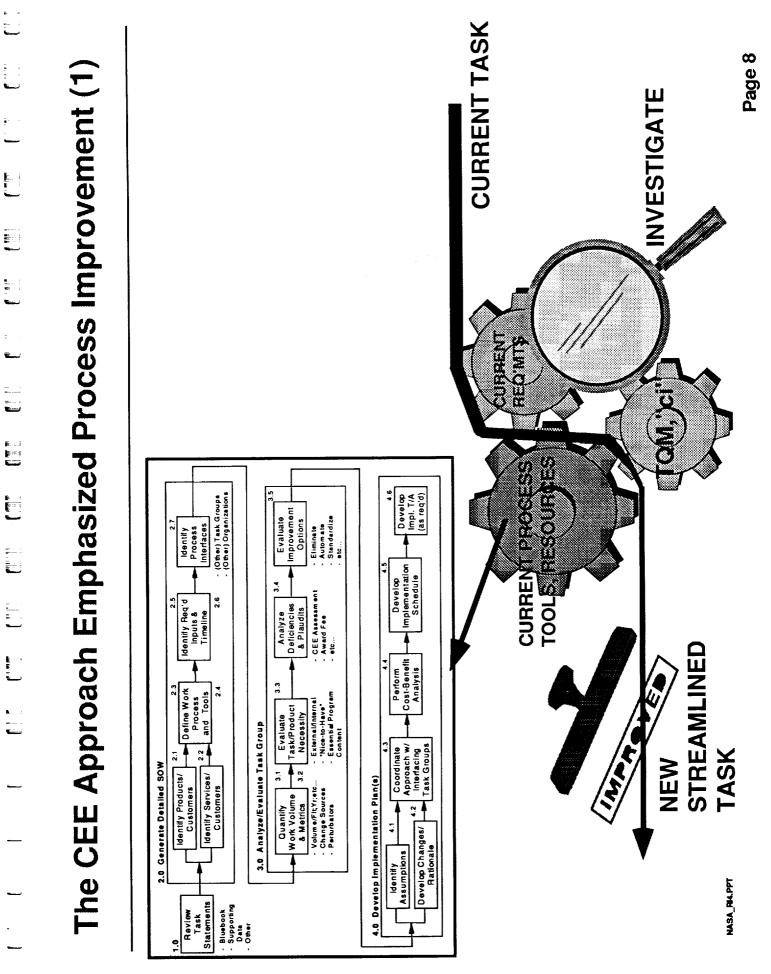
-

....



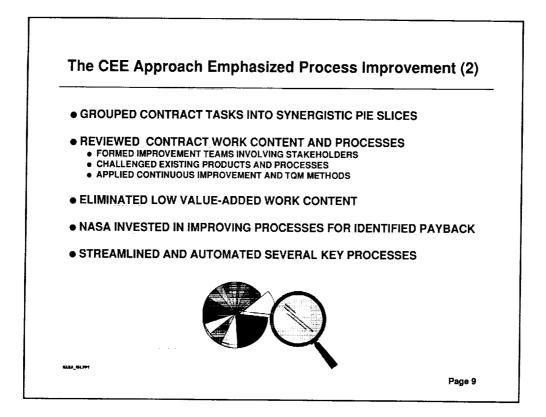


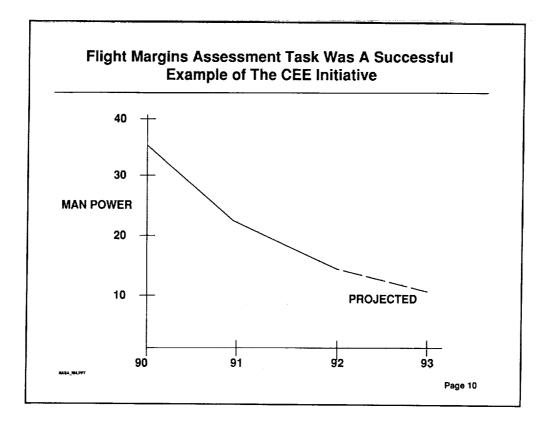




ī

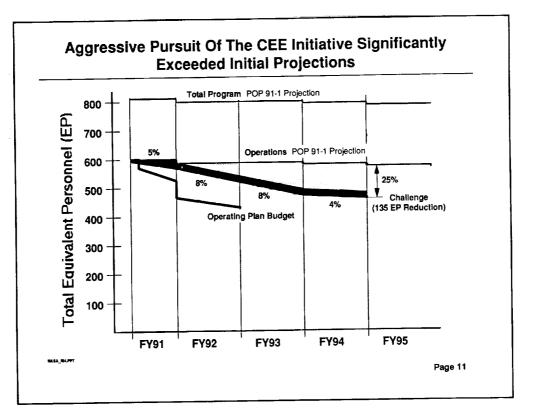
-

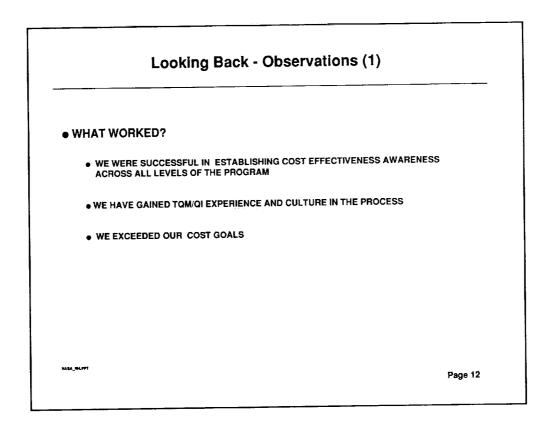


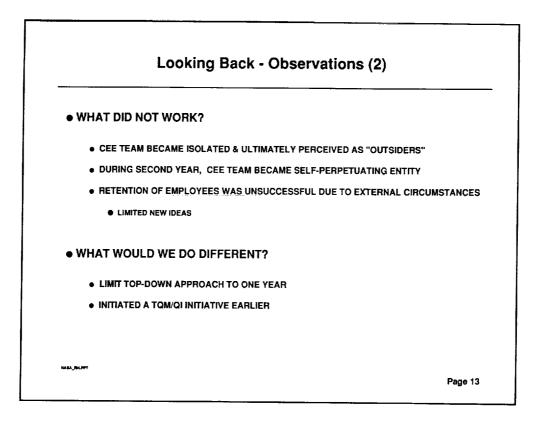


F2.2-7

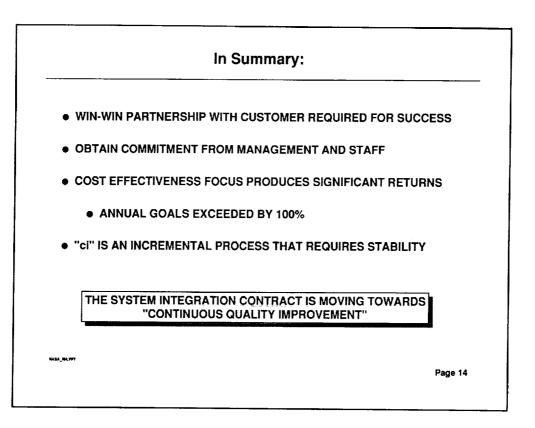
- 10

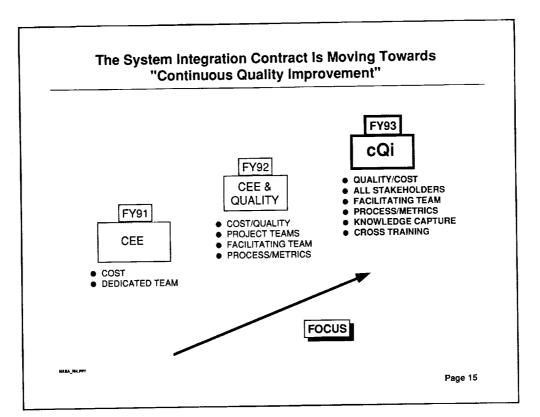






-2





. . ..... \_\_\_\_

.