

ABSTRACT AND BIOGRAPHY

Center-wide Facilities Review and Planning: Tools and Best Practices

A major contributor to a successful mission execution at Human Spaceflight Centers and NASA-JSC is strategic planning of facilities usage and cost, especially within the complex scenario of Shuttle Fly-out and Transition and Retirement (T&R), ongoing ISS Program, and Constellation and Exploration programs/projects.

Though primarily focused on real property, a facility represents a significant (or core) capability or asset and becomes a factor in the overall center “supply” that meets the “demand” of mission, program, or project requirements.

From FY2007, NASA-JSC has implemented a yearly Facilities Review as part of Transition Integration panel activities. The overall objectives included:

- Capturing comprehensive facility listing, description and baseline cost estimates for Programs, Center and Agency planning purposes
- Assessing budget associated with closeout, gaps and utilization of the facilities (Workforce and Dollars) tied to Core Capabilities
- Linking utilization of buildings/facilities for overall Center Master Planning efforts
- Supporting Center Director-level risk-based decisions regarding current facilities close-outs, consolidations, gap funding, mothballing, and demolition

The JSC Transition Management team has baselined the facilities listing and assessed the usage, gaps, and cost findings of 464+ facilities over a rolling 7-year planning/budget horizon.

To best report and manage the facilities-based decision support information, the team developed a unique, automated, and interactive web-based tool/database that supports facilities planning – the JSC Facilities Review Database (JFReD) This presentation will showcase and discuss the JFReD approach, and overall best practices and results from the last 3 years of facilities planning in meeting the challenges of center-based infrastructure decision management.

Lovely Krishen, Ph.D

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Dr. Lovely Krishen has over 15 years of experience in the aerospace industry with the last several years as a leader and trainer/mentor in the areas of risk management, risk analysis, and mitigation. Her broad technical and management background spans Shuttle Program and International Space Station independent assessment as well as Life Sciences, Safety and Mission Assurance, and Advanced Technology initiatives. As an author and co-author of several publications and key assessments, Dr. Krishen's efforts have provided risk-based decision support and guidance in strategic planning and roadmapping initiatives for NASA's human spaceflight program.

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Currently, Dr. Krishen is a Lead Risk Analyst with Futron Corporation in Houston, Texas. She is primarily responsible for providing technical consulting and team leadership support for the JSC Transition and Integration task as well as SSP Transition support leadership. More recently, she has developed subject matter expertise in the areas of Transition management and strategic planning (including analysis/assessment) of facilities and capabilities - as they relate to project, risk, and decision management integration and implementation.

Dr. Krishen earned her undergraduate degree in Physics at Rice University and her M.S. and Ph.D. in Biomedical Sciences (Biophysics) at the University of Texas - Houston Health Science Center. Some notable honors and awards include: Recipient of National Research Council Post-doctoral Fellowship; NASA-JSC Team Achievement Award; Quality Assurance Special Achievement Recognition Award; Rice University Tsanoff Scholar.

Perri E. Fox

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Perri Fox has been working at NASA-Johnson Space Center for 19 years. She began her career there as a contractor working space utilization issues for the Mission Operations Directorate. After a brief hiatus she returned in 1995 as the Space Utilization Manager working for the Center Operations Directorate. She worked as the Alternate Center Export Administrator for a short time and then spent 6 months in a rotational capacity as the Special Assistant to the Director, Center Operations. She then returned to the Planning & Integration Office and became the Real Property and Historic Preservation Officers. She became the Chief of that office in 2002 and served in that capacity until assuming the role as the JSC Transition Manager in August of 2009.

Perri is a graduate of Texas A&M University with a degree in Environmental Design. She has previous experience in private industry working as a designer and graphic artist for a residential architecture firm in Houston, Texas.