

NASA ADVISORY COUNCIL
 TASK FORCE ON THE SHUTTLE-MIR
 RENDEZVOUS AND DOCKING MISSIONS
 Initial Briefing
 Lyndon B. Johnson Space Center
 Building 1, Room 966
 24 - 25 May 1994
 Meeting Minutes

Tuesday, 24 May 1994		
9:05 - 9:10	Welcoming Remarks	Dr. Carolyn Huntoon JSC Center Director
9:10 - 10:20	Phase 1 Overview <ul style="list-style-type: none"> • Background (International Agreements) • Phase 1 Scope • Goals of Phase 1 • Joint Working Group Structure • Cooperative and Contractual Arrangements • Program Schedule 	Mr. James Nise International Space Station Alpha (ISSA) Program Office
10:30 - 11:25	Mission Overviews (STS-63, STS-71, and STS-74) <ul style="list-style-type: none"> • Mission Objectives • Mission Summary • Flight Summary 	Mr. David S. Grissom Space Shuttle Program Office
11:25 - 12:00	STS-71 Science Overview <ul style="list-style-type: none"> • Joint Science Working Group • Priorities • Investigations • Disciplines • Hardware • End of Mission Countermeasures • Training • Timeline • Post-Flight Activity Planning 	Dr. Peggy Whitson JSC Space and Life Sciences Directorate
12:15 - 3:10	Orbiter Docking System <ul style="list-style-type: none"> • Requirements Highlights • Hardware Overview • STS-71 Program Status • STS-74 Program Status • Androgynous Peripheral Assembly System (APAS) Docking Mechanism Overview 	Mr. Stuart McClung JSC Orbiter and GFE Projects Office Mr. John McManamen JSC Engineering Directorate

Wednesday, 25 May 1994

8:10 - 10:00	<p>Systems Integration</p> <ul style="list-style-type: none">• Roles and Responsibilities• STS-63 and STS-71 Overview and Status• Joint Engineering Analysis Approach• On-Orbit Engineering Areas<ul style="list-style-type: none">- Mated Flight Control- Loads and Dynamics- Thermal Control- Life Support Systems- Avionics- Rendezvous and Docking Aids• STS-74 Overview and Status	<p>Mr. Gregory Lange Space Shuttle Integration and Operations Office</p> <p>Mr. Donald Noah Space Shuttle Integration and Operations Office</p>
10:00 - 11:10	<p>Operations</p> <ul style="list-style-type: none">• Flight Design Overview• Mir Approach Demonstration DTO• +Rbar Approach• New Tools for Rendezvous and Docking• Proximity Operations• Organization• Flight Operations• Flight Rules• Attitude Planning• Communication and Interaction Between Mission Control Centers• Schedules	<p>Mr. Gary Coen JSC Mission Operations Directorate</p>
11:30 - 12:15	<p>Crew Exchange and Training</p> <ul style="list-style-type: none">• Crew Exchange and Training Working Group<ul style="list-style-type: none">- Functions- Members- Interfaces• Documentation• Status• Training Challenges• Training Strategy• Cosmonaut Training Plan• Comparison of U.S. and Russian Training• Bailout/Egress• Docking Mission Training• Crew Tasks During Prox Ops/Docking	<p>Mr. Steven Nagel JSC Flight Crew Operations Directorate</p> <p>Mr. Tommy Capps JSC Mission Operations Directorate</p> <p>Mr. Steven Nagel JSC Flight Crew Operations Directorate</p>
12:30 - 1:00	<p>Safety</p> <ul style="list-style-type: none">• Safety Assurance Working Group• Safety Assurance Policy and Guidelines• Shuttle/Mir Program Safety Documentation Development• Safety Requirements• Analysis of Off-Nominal Situations and Hazardous Conditions• Readiness to Support the Mission• Schedule	<p>Ms. Charlene Sarver JSC Mission Operations Directorate</p>

TASK FORCE MEMBERS AND TECHNICAL ADVISORS
ATTENDING THE 24 - 25 MAY MEETING

Team Members

Lt. Gen. Thomas P. Stafford, USAF (Ret.), Chairman
Stafford, Burke and Hecker, Inc.

Col. James C. Adamson, USA (Ret.)
President, Monarch Precision

Dr. Michael A. Greenfield
Deputy Associate Administrator, NASA Office of Safety and Mission Assurance

Maj. Gen. Ralph Jacobson, USAF (Ret.)
President and CEO, The Charles Stark Draper Laboratories

Mr. James M. Heflin, Jr.
Flight Director Office, NASA Lyndon B. Johnson Space Center

Dr. Arnauld Nicogossian
Deputy Associate Administrator, NASA Office of Life and Microgravity Sciences and Applications

Mr. Chester A. Vaughan
Chief, Propulsion and Power Division, NASA Lyndon B. Johnson Space Center

Capt. John Young, USN (Ret.)
Special Assistant for Engineering, Operations, and Safety, Office of the Director,
NASA Lyndon B. Johnson Space Center

Executive Secretary

Mr. William L. Vantine

Technical Advisors

Maj. Gen. Joe H. Engle, USAF (Ret.)
President, Engle Technologies, Inc.

Mr. Glynn Lunney
President, Rockwell Space Operations Company