



20th Century NASA Space History: Shuttle / Mir Phase 1 Program Joint Report - Space Shuttle Integration with Russian Mir Space Station, Cargo Delivery, Joint Operations, Safety, Crew Training

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This official NASA document provides a fascinating detailed history of the Shuttle/Mir Phase 1 program, intended as a top-level joint reference document that contains information of interest to both the United States and Russia.

Contents: How the Phase 1 Program Started * Objectives and Working Group Structure * Program Description * Description of the Mir-Shuttle and Mir-NASA Programs * The Mir Space Station's Flight Program in 1994 - 98 * Phase 1 Joint Mission Information * Shuttle Mission Preparation Joint Milestones * Shuttle Integration With Mir * Structure/Process/Organization Relationships * Joint Accomplishments * Docking System * Lessons Learned/Applicability to ISS * Cargo Delivery and Return * Summary Data on Cargo Delivered to/Returned From the Mir Under the Mir Shuttle/Mir-NASA Programs * List of Russian Cargo on Shuttle Flights to the Mir Station * Unique Features of Mir-Shuttle and Mir-NASA Orbiter Flights With Respect to Russian Cargo * Accommodation * Principal Stages of Orbiter Processing for Carrying Russian Logistics * Parties' Primary Accomplishments Under Mir-Shuttle/Mir-NASA Programs * Joint Shuttle-Mir Operations * Mission Control and Real-Time Operations During Shuttle Docking Flights * Operations During the Long-Duration Missions * Safety Assurance Process * Documentation Structure * Policies and Ground Rules * Top Safety Joint Accomplishments * Top Safety Lessons Learned * Crew Training * Overview of Crew Training * Training of Astronauts in Russia * Mir Station Systems and Soyuz TM Training * Training in the Soyuz TM Integrated Simulator * Training of Astronauts on Mir Orbital Complex Simulators and System Mockups * Conclusions and Proposals for the Overall Astronaut Training Program * Training for Cosmonauts in the U.S. * Crew Training for Execution of the Science Program * NASA Astronaut Training for the Mir EVA Program * Summary of Mir-NASA Crew Training * Joint EVA Working Group * Structures/Processes/Relationships * Certificate of Flight Readiness (COFR) Process * Training * Accomplishments * Lessons Learned * Summary of Joint Cosmonaut-Astronaut EVA * Medical Support * Introduction * Goals * Principles and Structure * Evaluating Crew Health and Medical Monitoring * General Crew Training Overview * Astronaut Training * Biomedical Crew Training * Role of Russian Flight Surgeons * Conclusions and Recommendations for the Overall Medical Support Program * Accomplishments and Lessons Learned * Summary of the Medical Support Group's Accomplishments * Crew Operations on Mir * Joint Activities of Mir and Shuttle Crews * NASA Astronaut Crew Transfers * Accomplishments * Objectives * Crew Responsibilities * EVA Operations * Interactions of the Russian-American Crews With the Main Real-Time Operations * Management Group and the NASA Consultant Group at MCC-M * Conclusions and Recommendations * Science Program * Introduction * Mission Science Working Group (WG-4) * NASA Russian Public Affairs Working Group (WG-1) Report * Responsibilities * Structure * Accomplishments * Lessons Learned and Applications to ISS * Applications to the International Space Station (ISS) * Unique Issues * Use of Shuttle for the Space Station Logistics Support * Interaction Between International Crews * Space Station System Serviceability Over a Long-Term Mission * Experience in Off-Nominal Situations Recovery * Joint Ground Operations With Logistics Items

* Research of Station Environment * Russian/U.S. Cargo Integration * Development of Joint Documents *
Experience Gained in Joint Shuttle/Mir Complex Control From MCC-H/MCC-M * Science Research
Accomplishments * Combining Experience of Two Space Engineering Schools * Acronym List

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