

3.2 Medical Requirements Overview**TABLE 3.2: MEDICAL REQUIREMENTS OVERVIEW**

| | |
|--|---|
| MRID# and Title: | MR017S Private Medical Conferences (PMCs) for Shuttle |
| Sponsor: | Medical Operations |
| IPT: | N/A |
| Category: | Medical Requirements (MR) |
| References: | Medical Operations Requirements Document for Space Shuttle (Shuttle MORD) JSC 13956 Rev G Section 3.2.1: Crew Health Intervention |
| Purpose/Objectives: | To evaluate the overall health status of flight crewmembers, a routine Private Medical Conference (PMC) shall be conducted between the Flight Control Room (FCR) Surgeon and the Shuttle Commander. |
| Measurement Parameters: | N/A |
| Deliverables: | Flight note from the FCR Surgeon to Flight Director regarding status of crew health. |
| Flight Duration: | < 30 days |
| Number of Flights: | Each Shuttle mission |
| Number and Type of Crew Members Required: | Shuttle Commander with Crew Medical Officer and crewmember as required. |
| Other Flight Characteristics: | N/A |

3.3 Preflight Training

TABLE 3.3: PREFLIGHT TRAINING

| | | | | |
|--|--|--------------------------------------|----------------------------------|----------------------------|
| Preflight Training Activity | Description: PMC procedures are presented to the crew as part of the Medical Procedures 3101A lesson and the Medical Refresher 4101 lesson. | | | |
| | Duration: | Schedule: | Flexibility: | Personnel Required: |
| | Schedule: Medical Procedures 3101A 180 min. Medical Refresher 4101 60 min. | L-19 weeks L-10 days | N/A | Crew Surgeon and crew |
| Ground Support Requirements Hardware/Software | Preflight Hardware: | Preflight Software: | Test Location: | |
| | N/A | N/A | U.S. | |
| Training Facilities | Minimum Room Dimensions: | Number of Electrical Outlets: | Temperature Requirements: | Special Lighting: |
| | 8' X 10' | 2(110V) U.S. | Ambient | N/A |
| | Hot or Cold Running Water: | Privacy Requirements: | Other: | |
| | N/A | Room free of distraction | N/A | |
| Constraints/Special Requirements: | N/A | | | |
| Launch Delay Requirements: | N/A | | | |
| Notes: | N/A | | | |

3.4 Preflight Activities - No Preflight Activities

3.5 In-flight Activities

TABLE 3.5.1: IN-FLIGHT ACTIVITIES

| | | | | |
|--|---|--|---|----------------------------|
| In-flight Activity | Description: | Consultations will be conducted between the FCR Surgeon and the Shuttle Commander via the Orbiter Communications Adapter (OCA) or the private air-to ground loop to evaluate overall health status of crewmembers. | | |
| | Schedule: | Duration: | Schedule: | Personnel Required: |
| | | Private Medical Conference 15 min. | All flight days | FCR Surgeon and Commander |
| | | Private Medical Conference 15 min. | Prior to any EVA (see note) | FCR Surgeon and Commander |
| | | Private Medical Conference 15 min. | Prior to any contingency deorbit that occurs before 72 hours Mission Elapsed Time (MET) | FCR Surgeon and Commander |
| Private Medical Conference 15 min. | Landing day before deorbit preparation | FCR Surgeon and Commander | | |
| Procedures: | Procedures for conducting PMCs are contained in the BME Checklist, Flip File, and Console Handbook. | | | |
| Constraints / Special Requirements: | A Private Medical Conference may be requested at any time by the Crew Commander, FCR Surgeon, or Flight Director (FD). | | | |
| Photo / TV Requirements: | Nominal results require no photo or video. In contingency situations, photo/video may be made available at the FCR Surgeon's request. | | | |
| Notes: | PMCs are not routinely scheduled before EVAs. EVA issues are nominally discussed during the previous day's PMC. | | | |
| Mission Extension Requirements: | N/A | | | |
| Landing Wave-Off Requirements: | N/A | | | |
| Data Delivery | Data/Report to Designated Recipients (Nominal/Contingency): | | | |
| | Medical information discussed during PMCs will be managed in accordance with the Privacy Act of 1974, as amended. | | | |

In-flight Activities, (cont.)

TABLE 3.5.2: IN-FLIGHT HARDWARE

| Hardware/Software Name | P/N | Vehicle (Up/Dn) | Category | Late Access / Early Destow/ Early Return | Docked Ops | Weights (kg) | Volume (cm ³) | Dimensions LxWxH (cm) | Power (watts) | Resupply | Download / Downlink |
|--------------------------------------|-----|-----------------|----------|--|------------|--------------|---------------------------|-----------------------|---------------|----------|---------------------|
| Orbiter Communications Adapter (OCA) | N/A | Shuttle | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | As required |
| Private Air-to-Ground Loop | N/A | Shuttle | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | As required |

3.5 Postflight Activities – No Postflight Activities

3.6 Summary Schedule

TABLE 3.6: SUMMARY SCHEDULE

| ACTIVITY | DURATION | SCHEDULE | PERSONNEL REQUIRED | CONSTRAINTS |
|------------------------------------|--|---|---------------------------|---|
| Preflight Training: N/A | | | | |
| Preflight Activity: N/A | | | | |
| In-flight | | | | |
| Private Medical Conference 15 min. | 15 min. | All flight days | FCR Surgeon and Commander | A Private Medical Conference may be requested at any time by the Crew Commander, FCR Surgeon or Flight Director (FD). *PMCs are not routinely scheduled before EVAs. EVA issues are nominally discussed during the previous day's PMC. |
| Private Medical Conference 15 min. | 15 min. | *Prior to any EVA | FCR Surgeon and Commander | |
| Private Medical Conference 15 min. | 15 min. | Prior to any contingency deorbit that occurs before 72 hours Mission Elapsed Time (MET) | FCR Surgeon and Commander | |
| Private Medical Conference 15 min. | 15 min. | Landing day before deorbit preparation | FCR Surgeon and Commander | |
| Wheels-Stop: N/A | | | | |
| Postflight: N/A | | | | |
| Postflight Debrief: | | | | |
| Medical Debrief | No extra time, part of R+3 medical debrief | R+3 | FCR Surgeon and crew | N/A |