

Radiogram No. 7746u

Form 24 for 11/21-22/2011

Soyuz 702 Undocking From MRM1

| GMT | CREW | ACTIVITY |
|-------------|------------------------------|---|
| 11:30-11:35 | CDR | Reaction Self Test |
| 11:30-11:40 | FE-1 | Morning Inspection. SM ПСС [Caution & Warning Panel] Test |
| 11:30-11:40 | FE-2 | Morning Inspection. Inspection of CM-Y connector on MHP-HC pump behind ACY panel |
| 11:30-11:40 | FE-4, FE-5,FE-6 | Morning Inspection |
| 11:35-11:40 | CDR | BCAT Nikon D2Xs Battery Changeout |
| 11:40-12:10 | FE-1,FE-2,FE-4, FE-5,FE-6 | Post-sleep |
| 11:40-11:50 | CDR | Morning Inspection |
| 11:50-12:20 | CDR | Post-sleep |
| 12:10-13:00 | FE-1,FE-2 | BREAKFAST |
| 12:10-13:00 | FE-4,FE-5,FE-6 | Breakfast |
| 12:20-13:10 | CDR | BREAKFAST |
| 13:00-13:10 | FE-4 | Work Prep |
| 13:00-13:10 | FE-1,FE-2, FE-5,FE-6 | Work Prep |
| 13:10-13:30 | CDR,FE-1,FE-2, FE-5,FE-6 | Daily Planning Conference (<i>S-band</i>) |
| 13:10-13:25 | FE-4 | |
| 13:25-16:25 | FE-4 | Loading Return Hardware to Soyuz 702 (time critical items) |
| 13:35-13:45 | FE-1,FE-2, CDR,FE-5,FE-6 | Work Prep |
| 13:45-13:55 | CDR | EHS Air Quality Monitoring (AQM) Start |
| 13:45-13:55 | FE-1 | ГФИ-1 [Geophysical Studies]. Relaxation Experiment Battery Charging |
| 13:45-14:25 | FE-2 | Auxiliary Laptop Computer System Virus Definition File Update. <i>Tagup with specialists</i> |
| 13:55-14:15 | FE-5 | Blood And Saliva Collection Hardware Stow |
| 14:05-14:45 | FE-1 | Maintenance activation of Vozdukh Emergency Vacuum Valves [ABK] (from the spare part kit) (CM1PO_3_321_1, bag II-1/256-1, ABK cover (004173R)) |
| 14:10-15:10 | CDR | Physical Exercise (CEVIS) |
| 14:10-15:25 | FE-6 | Physical Exercise T 2 |
| 14:25-14:45 | FE-2 - <i>assists</i> | Maintenance Activation of Atmosphere Purification System Emergency Vacuum Valves [ABK COA] from the Spare Part Kit |
| 14:45-15:05 | FE-2 | BIOEMULSION Transfer to Soyuz |
| 14:45-15:10 | FE-1 | STRUCTURE. Deactivate Crystallization Process and Transfer LUCH-2 Kit |
| 15:05-15:25 | FE-2 | PLAZMIDA Hardware Removal from Thermostatic Container (+4 C) and Transfer to Soyuz |
| 15:10-15:25 | FE-1 | BIF. Removal from thermostatic container and transfer to Soyuz |

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| 15:10-15:30 | CDR | EXPRESS Rack 8 Locker 3 and Locker 4 Reconfiguration |
| 15:15-15:25 | FE-5 | USOS Window Shutter Close |
| 15:25-15:45 | FE-2 | CASCADE Bioreactor Removal and Transfer to Soyuz |
| 15:30-15:45 | CDR | Viable Crew OBT |
| 15:45-16:15 | CDR | Viable Bag Inspection |
| 15:45-16:15 | FE-2 | Changeout of CPB-K2M Purification Column Unit (БКО).. Install БКО S/N 1009047 (00053796R, CM1 PO_1_131_1). Pre-pack the removed unit for disposal. Update IMS |
| 16:15-16:55 | FE-2 | COЖ Maintenance |
| 16:15-16:40 | CDR | Condensate Pumping Initiation |
| 16:25-16:35 | FE-5 | Soyuz 27 Equipment Stowage Configuration Photo |
| 16:25-16:40 | FE-4 | Soyuz 702 Loading Complete Report (<i>S-band</i>) |
| 16:40-17:15 | FE-4 | Photography of the external surface of Soyuz 702 CA-EO hatch /man-hole door. Downlink photo (<i>via OCA</i>) |
| 16:50-17:15 | CDR | IPU VRU Hard Disk Exchange |
| 17:15-18:15 | CDR, FE-1,FE-2 | LUNCH |
| 17:15-18:15 | FE-4,FE-5,FE-6 | LUNCH |
| 18:15-18:25 | CDR | BCAT6 Camera Check |
| 18:15-18:25 | FE-4 | Soyuz 702 Comm Check via VHF (<i>VHF2</i>) |
| 18:25-18:40 | FE-1 | Comm Config for Soyuz 702 Undocking and Descent, Soyuz 702 Comm Check |
| 18:25-19:25 | FE-4 | Soyuz 702 Activation and Comm Check via S-band |
| 18:40-18:55 | CDR | Terminate Condensate Pumping |
| 19:25-19:30 | CDR | EHS - Air Quality Monitor (AQM) End |
| 19:25-19:45 | FE-4 | Quick-Release Screw Clamp Removal, MRM1-Soyuz 702 Interface Video |
| 19:30-19:45 | FE-1,FE-2,CDR | Hatch Closure TV PAO Prep |
| 19:45-20:05 | FE-1,FE-2,FE-4 | Soyuz 702-MRM1 Hatch Closure |
| | CDR,FE-5,FE-6 | Hatch Closure TV Report |
| 20:05-21:05 | FE-4 | Soyuz 702 - MRM1 Hatch Leak Check |
| 20:05-20:15 | CDR | WRS Water Sample Analysis |
| 20:15-21:45 | CDR | Physical Exercise (ARED) |
| 20:15-20:35 | FE-1 | Hatch Closure TV Downlink (<i>Ku + S-band</i>) |
| 20:35-20:45 | FE-1 | TV Downlink Showing MRM1-Soyuz Interface prior to Transfer Hatch Closure (<i>Ku + S-band</i>) |
| 21:05-21:25 | FE-2 | Photos of Scuff Marks Left by Soyuz Docking Mechanism Probe on MRM2 Passive Docking Mechanism Cone after Soyuz 232 Docking |
| 21:05-02:25 | FE-4,FE-5,FE-6 | Soyuz ODF Ops; Undocking and Descent |
| 21:25-21:45 | FE-1 | Tightening Screw Clamps [3B] on MRM1-FGB Docking Assy Interface |
| 21:25-21:45 | FE-2 | Downlink MRM2 ACП Docking Cone Internal Surface Photos/Data (<i>via OCA</i>) |
| 21:45-22:00 | FE-1 | Verify ИП-1 sensor |

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| 22:40-23:25 | FE-1 | Photography of Soyuz 702 Docking Assembly from SM Window #7 after Separation from ISS |
| 23:15-23:30 | FE-2 | Soyuz 702 Post-Undocking Comm Reconfig |
| 23:25-23:30 | FE-1 | On MCC Go Switch MRM1-TK PEV to CLOSED position |
| 23:30-23:45 | FE-1,FE-2,CDR | Daily Planning Conference (<i>S-band</i>) |
| 23:45-00:00 | FE-2 | BTX. Deactivation of Cryogem-03, TBY, and TBY-B Thermostatic Containers |
| 23:45-23:55 | CDR | TOCA 2 Data Recording |
| 23:55-00:25 | CDR | EMER Equipment Relocation |
| 00:00-01:20 | FE-1 | RELAXATION. Hardware Installation on Window #9. <i>Tagup with specialists</i> |
| 00:00-00:40 | FE-2 | Pre-sleep |
| 00:25-00:50 | CDR | Evening Work Prep |
| 00:40-01:20 | FE-2 | ISTOCHNIK-M Preparation For Measurements. <i>Tagup with specialists</i> |
| 00:50-01:05 | CDR | Immunity Survey |
| 01:05-01:20 | CDR | First Journal Entry |
| 01:20-01:25 | CDR | Start Video |
| 01:20-01:50 | FE-1 | RELAXATION. Setting Parameters and Starting the Hardware |
| 01:20-02:00 | FE-2 | ISTOCHNIK-M. Soyuz TLM Data Recording Activation |
| 01:25-03:25 | CDR | Pre-sleep |
| 01:50-02:05 | FE-1 | RELAXATION Observation |
| 02:00-02:25 | FE-2 | ISTOCHNIK-M Closeout Ops |
| 02:05-02:35 | FE-1 | RELAXATION Closeout Ops |
| 02:25-02:35 | FE-2 | Restoring nominal comm config after Soyuz 702 landing |
| 02:35-03:40 | FE-1 | Pre-sleep |
| 02:35-02:45 | FE-2 | Verification of antivirus scan results on Auxiliary Computer System [BKC] Laptops and Status Report |
| 02:45-04:00 | FE-2 | Pre-sleep |
| 03:25-03:35 | CDR | CIR Alignment Guide Removal |
| 03:35-03:45 | CDR | HAM Radio Power Up |
| 03:40-03:50 | FE-1 | Secondary Combustion Unit Temperature Check After Elektron Activation |
| 03:45-03:50 | CDR | BCAT Nikon D2Xs Battery Changeout |
| 03:50-03:55 | CDR | Reaction Self Test |
| 03:50-04:00 | FE-1 | Pre-sleep |
| 03:55-04:00 | CDR | Terminate Video |
| 04:00-06:00 (11/23/11) | FE-1,FE-2,CDR | SLEEP |
| Task List | FE-1,FE-2 | Soyuz 232 Transfers w/ IMS updates |

Notes:

1. SM Window #9 shutter opening is at crew discretion w/ **Report to MCC**
2. See OSTP for references to US activities
3. Pre-sleep ops: daily food prep, dinner, pre-sleep

End of Radiogram