

Radiogram No. 8142u Form 24 for 01/11/2012

**MONITORING OF COTP KOX 1, 2**

| GMT         | CREW                              | ACTIVITY  |
|-------------|-----------------------------------|---|
| 06:00-06:10 | FE-2, FE-5,<br>FE-6               | Morning Inspection  |
| 06:00-06:10 | FE-4                              | Morning Inspection. <b>SM PCC [Caution &amp; Warning Panel] Test</b>  |
| 06:00-06:05 | CDR                               | Reaction Self Test  |
| 06:00-06:10 | FE-1                              | SONOCARD Experiment Termination   |
| 06:05-06:10 | CDR                               | Morning Inspection  |
| 06:10-06:40 | CDR, FE-2,<br>FE-4, FE-5,<br>FE-6 | Post-sleep  |
| 06:10-07:10 | FE-1                              | SPRUT-2 Experiment Run  |
| 06:40-07:00 | FE-2                              | SPRUT-2. Photography of the Experiment  |
| 06:40-07:30 | CDR, FE-4,<br>FE-5, FE-6          | BREAKFAST   |
| 07:00-07:50 | FE-2                              | BREAKFAST   |
| 07:10-07:30 | FE-1                              | Post-sleep  |
| 07:30-07:40 | FE-5                              | Work Prep   |
| 07:30-07:50 | FE-1                              | BREAKFAST   |
| 07:30-07:50 | CDR, FE-4,<br>FE-6                | Work Prep   |
| 07:40-07:50 | FE-5                              | Portable PFS power on and a 45-minute warm-up   |
| 07:50-08:15 |                                   | Daily Planning Conference ( <i>S-band</i> )   |
| 08:15-08:30 | CDR                               | Retrieve Spare CUCU   |
| 08:15-08:30 | FE-1                              | BREAKFAST   |
| 08:15-08:45 | FE-2                              | Work Prep   |
| 08:15-11:30 | FE-4                              | Monitoring of the technical parameters and refilling of KOX1,2. <i>Tagup with specialists (S-band)</i>          |
| 08:15-08:25 | FE-5                              | VO2max Video Setup  |
| 08:15-08:45 | FE-6                              | Caution & Warning Book Update   |
| 08:25-08:50 | FE-5                              | VO2max Protocol Preparation   |
| 08:30-09:00 | CDR                               | Install Backup CUCU   |
| 08:30-08:45 | FE-1                              | SONOCARD Copy Data to RSE-MED Laptop  |
| 08:45-09:45 | FE-1, FE-2                        | Video Footage for Nauka 2.0 [Science 2.0] TV Project  |
| 08:50-09:30 | FE-5                              | VO2max - PFS SW Calibration and Hardware Checkout   |
| 08:50-10:05 | FE-6                              | WHC Tank R&R  |
| 09:15-09:45 | CDR                               | Ultrasound Power Up   |
| 09:30-10:10 | FE-5                              | VO2max Experiment Protocol  |
| 09:45-11:15 | CDR                               | Physical Exercise (ARED)  |
| 09:45-10:35 | FE-2, FE-1<br>(assists)           | Study of cardiovascular system under graded physical load ( <b>To=10:06</b> ). <i>Tagup w/specialists (VHF)</i> |
| 10:05-11:05 | FE-6                              | Physical Exercise T2  |
| 10:10-11:05 | FE-5                              | VO2max - PFS Closeout Ops   |

|             |                                   |  |
|-------------|-----------------------------------|--|
| 10:35-12:00 | <b>FE-1</b>                       | Loading disposal hardware to Progress 413 and IMS updates  |
| 11:05-11:15 | FE-6                              | Ultrasound Scan Prep   |
| 11:10-11:25 | <b>FE-2</b>                       | Verify ИП-1 sensor positions   |
| 11:15-11:55 | FE-5                              | Ultrasound Scan  |
| 11:15-12:15 | CDR                               | Physical Exercise (CEVIS)  |
| 11:15-11:55 | FE-6                              | Ultrasound Scan - Operator   |
| 11:25-12:55 | <b>FE-2</b>                       | Physical Exercise (ARED)   |
| 11:35-13:00 | <b>FE-4</b>                       | Physical Exercise (TVIS), Day 2  |
| 11:55-12:05 | FE-5                              | EPO. Laptop Setup  |
| 12:00-12:05 | FE-6                              | Compound Specific Analyzer- Combustion Products (CSA-CP) Spot Check                                    |
| 12:00-13:00 | <b>FE-1</b>                       | Physical Exercise T 2  |
| 12:05-12:15 | FE-6                              | Ultrasound Data Transfer   |
| 12:05-12:10 | FE-5                              | VO2max - PFS Closeout Ops  |
| 12:10-13:10 | FE-5                              | LUNCH  |
| 12:15-12:55 | FE-6                              | Ultrasound Scan - Operator   |
| 12:15-12:55 | CDR                               | Ultrasound Scan  |
| 12:55-13:05 | CDR                               | Ultrasound Data Transfer   |
| 13:00-14:00 | <b>FE-1, FE-2,<br/>FE-4, FE-6</b> | LUNCH  |
| 13:05-14:05 | CDR                               | LUNCH  |
| 13:10-13:30 | FE-5                              | EPO. Experiment Setup  |
| 13:30-14:00 | FE-5                              | EPO. Experiment Educational Video  |
| 14:00-14:40 | FE-6                              | Ultrasound Scan  |
| 14:00-15:30 | <b>FE-1</b>                       | Loading disposal hardware to Progress 413 and IMS updates  |
| 14:00-14:40 | <b>FE-2</b>                       | Filling (separation) of EDV [KOB] for Elektron   |
| 14:00-14:40 | FE-5                              | Ultrasound Scan - Operator   |
| 14:00-16:15 | <b>FE-4</b>                       | Monitoring of the technical parameters and refilling of KOX1,2. <i>Tagup with specialists (S-band)</i> |
| 14:05-14:25 | CDR                               | Restow hardware displaced by installing Backup CUCU  |
| 14:25-17:55 | CDR                               | WHC Maintenance  |
| 14:40-15:10 | <b>FE-2</b>                       | COЖ Maintenance  |
| 14:40-14:45 | FE-5                              | HMS Ultrasound Scanning  |
| 14:40-14:45 | FE-6                              | Ultrasound 2 Hardware Power Off  |
| 14:45-14:55 | FE-6                              | Gradient Heating Furnace (GHF): troubleshooting for communication error                                |
| 14:55-15:05 | FE-6                              | NanoRacks. Module 9 Activation   |
| 15:05-15:15 | FE-6                              | NanoRacks. Historical Video Setup  |
| 15:10-17:10 | <b>FE-2</b>                       | Water transfer from Progress 413 Rodnik tank ББ1 to EDV  |
| 15:15-15:35 | FE-6                              | NanoRacks. Module 9 Activation   |
| 15:25-15:35 | FE-5                              | EPO. Preparation With Tape Rewind  |
| 15:30-17:00 | <b>FE-1</b>                       | Physical Exercise (ARED)   |
| 15:35-15:50 | FE-5                              | EPO. Experiment Photographs Acquisition  |
| 15:35-16:05 | FE-6                              | MAMS Filter Cleaning   |
| 15:55-16:05 | FE-5                              | EPO. Preparation With Tape Rewind  |

|                  |                               |  |
|------------------|-------------------------------|--|
| 16:05-16:25      | FE-5                          | Evening Work Prep  |
| 16:05-16:15      | FE-6                          | FMK Stow   |
| 16:15-16:55      | <b>FE-4</b>                   | Microbial Air Sampling (sample collection)                               |
| 16:25-16:40      | FE-5                          | EPO. Experiment Deconfiguration  |
| 16:30-16:45      | FE-6                          | Private Medical Conference   |
| 16:40-18:10      | FE-5                          | Physical Exercise T2   |
| 16:45-17:00      | FE-6                          | Journal Entry  |
| 16:55-17:15      | <b>FE-4</b>                   | MO-21 Prep. Ecosphere Battery Charge                                     |
| 17:00-17:20      | <b>FE-1</b>                   | IMS Update   |
| 17:00-18:30      | FE-6                          | Physical Exercise (ARED)   |
| 17:10-17:15      | <b>FE-2</b>                   | <b>On MCC GO</b> ISS N2 Repress from Progress 413 CpPK Section 2 (start) |
| 17:15-17:45      | <b>FE-2</b>                   | VZAIMODEISTVIYE Experiment Ops   |
| 17:15-18:15      | <b>FE-4</b>                   | Physical Exercise (VELO), Day 2  |
| 17:45-18:45      | <b>FE-2</b>                   | Physical Exercise (TVIS), Day 2  |
| 18:00-18:50      | <b>FE-1</b>                   | Evening Work Prep  |
| 18:00-18:15      | CDR                           | Private Medical Conference   |
| 18:10-18:20      | FE-5                          | EPO. Laptop Deconfiguration  |
| 18:15-18:50      | CDR, <b>FE-4</b>              | Evening Work Prep  |
| 18:20-18:50      | FE-5                          | Evening Work Prep  |
| 18:30-18:50      | FE-6                          | Evening Work Prep  |
| 18:45-18:50      | <b>FE-2</b>                   | Evening Work Prep  |
| 18:50-19:05      |                               | SW Update Procedure Review   |
| 19:05-19:30      |                               | Daily Planning Conference ( <i>S-band</i> )                              |
| 19:30-19:35      | CDR                           | P/TV Playback Start  |
| 19:30-21:30      | <b>FE-1, FE-4, FE-5, FE-6</b> | Pre-sleep  |
| 19:30-21:25      | <b>FE-2</b>                   | Pre-sleep  |
| 19:35-21:20      | CDR                           | Pre-sleep  |
| 21:20-21:25      | CDR                           | Reaction Self Test   |
| 21:25-21:30      | <b>FE-2</b>                   | ISS N2 Repress from Progress 413 CpPK Section 2 (terminate)              |
| 21:25-21:30      | CDR                           | P/TV Playback End  |
| 21:30-06:00      |                               | SLEEP  |
| <b>Task List</b> | <b>FE-1, FE-2, FE-4</b>       | Preparation of reports for Roskosmos site                                |

**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