

Radiogram No. 2130u

Form 24 for 04/22/2013

**Refilling FGB БВДГ(О) Tanks from ТКГ 418 КДУ Section 1**

| TIME        | CREW               | ACTIVITY  |
|-------------|--------------------|---|
| 06:00-06:10 | FE-3, FE-6         | Morning Inspection  |
| 06:00-06:10 | <b>FE-4</b>        | Morning Inspection.<br>SM ПСС (Caution & Warning Panel) Test<br>Inspection of CM-Y connector on MHP-HC separator pump behind<br>ACY panel 139 |
| 06:00-06:10 | CDR                | BCAT - Camera Battery Changeout   |
| 06:00-06:10 | <b>FE-2</b>        | Morning Inspection.<br>Reboot Laptop RS2(1)   |
| 06:00-06:10 | <b>FE-1</b>        | Morning Inspection.<br>RSS1 (RSS2) Reboot   |
| 06:10-06:40 |                    | Post-sleep  |
| 06:40-07:30 |                    | BREAKFAST   |
| 07:30-07:50 | CDR, FE-3,<br>FE-6 | Work Prep   |
| 07:50-08:15 |                    | Daily Planning Conference ( <i>S-band</i> )   |
| 08:15-08:25 | CDR                | Work Prep   |
| 08:15-08:25 | <b>FE-2</b>        | CASKAD. Manual Mixing in Bioreactor   |
| 08:15-08:30 | FE-6               | MSPR - Laptop Setup   |
| 08:15-08:25 | FE-3               | Crew reviews Big Picture Words and Feedback prior to the MDCA<br>hardware replacement   |
| 08:25-08:35 | CDR                | Preparation for blood draw  |
| 08:25-09:10 | FE-3               | CIR Hardware Gather   |
| 08:30-08:35 | FE-6               | Setting up video equipment to record T2 physical exercise   |
| 08:35-09:35 | FE-6               | Physical Exercise T2  |
| 08:35-08:45 | CDR                | MELF1 - Ice Brick Transfer  |
| 08:45-09:00 | CDR                | ARED Flywheel Cylinder remove   |
| 09:00-10:30 | CDR                | Physical Exercise (ARED)  |
| 09:10-09:35 | FE-3               | CIR - Maintenance Work Area Prep  |
| 09:20-09:50 | <b>FE-1, FE-4</b>  | Post-EVA Orlan debrief with specialists ( <i>S-band</i> )   |
| 09:35-09:50 | FE-3               | CIR - Preparation Ops   |
| 09:45-11:15 | FE-6               | Waste and Hygiene Compartment (WHS) Pre-Treat Tank and Pre-<br>Treat Tank Hose Remove & Replace   |
| 09:50-10:50 | <b>FE-1, FE-4</b>  | Post-EVA debrief. <i>Tagup with specialists (S-band)</i>  |
| 09:50-10:05 | FE-3               | CIR - Equipment Setup   |
| 10:05-12:05 | FE-3               | MDCA Hardware Replacement   |
| 10:30-10:40 | CDR                | WRS Water Sample Analysis   |
| 10:50-11:50 | <b>FE-2</b>        | Physical Exercise (VELO), Day 1   |
| 11:00-11:30 | CDR                | WOOV7setup for R&R  |
| 11:15-11:30 | <b>FE-1, FE-6</b>  | Handover of US tools used for EVA-32  |
| 11:30-13:00 | <b>FE-1</b>        | Physical Exercise (ARED)  |

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| 11:30-12:00 | CDR   | EXPRESS-3 ARIS Cable Demate  |
| 11:30-13:00 | FE-6  | US EVA Tool Stow   |
| 12:00-13:00 | <b>FE-4</b>                                     | Physical Exercise (TVIS), Day 3  |
| 12:00-12:05 | CDR   | Photo/TV Camcorder Setup Verification  |
| 12:05-12:25 | FE-3  | CIR - Closeout Ops   |
| 12:05-13:05 | CDR   | Physical Exercise T2   |
| 12:25-12:40 | FE-3  | CIR - Closeout Ops   |
| 12:40-13:00 | FE-3  | CBEF - Photography of Humidifier   |
| 12:50-13:00 | <b>FE-2</b>                                     | CASKAD. Thermostat Activation at +4 deg C  |
| 13:00-13:05 | <b>FE-2</b>                                     | <b>On MCC Go</b> Repress from ТКГ 418 (DC1) CpПK Section 2 (start)   |
| 13:00-14:00 | FE-3, FE-6                                      | LUNCH  |
| 13:05-14:05 | CDR, <b>FE-1</b> ,<br><b>FE-2</b> , <b>FE-4</b> | LUNCH  |
| 14:00-15:20 | FE-3  | EKAM - Hardware installation and activation  |
| 14:05-14:10 | <b>FE-2</b>                                     | Repress from ТКГ 418 (DC1) CpПK Section 2 (terminate)  |
| 14:05-14:25 | CDR, <b>FE-4</b> ,<br>FE-6                      | Kazbek Fit Check   |
| 14:10-14:50 | <b>FE-2</b>                                     | COЖ Maintenance  |
| 14:25-14:35 | CDR   | TOCA 2 Data Recording  |
| 14:25-14:45 | FE-6  | CEVIS Isolator Checkout  |
| 14:45-14:55 | CDR   | PAO Hardware Setup   |
| 14:45-15:05 | FE-6  | NANORACK Data Collection   |
| 14:55-15:35 | <b>FE-1</b>                                     | MPEG2 Video Test - ESA MPEG2 ENCODER Primary ( <i>Ku + S-band</i> ).<br><i>Tagup with specialists (S-band)</i> |
| 14:55-15:05 | CDR   | Crew Prep for PAO  |
| 15:05-16:35 | FE-6  | Physical Exercise (ARED)   |
| 15:05-15:25 | CDR   | PAO Event  |
| 15:20-15:25 | FE-3  | Photo/TV Camcorder Setup Verification  |
| 15:25-16:20 | FE-3  | Physical Exercise T 2  |
| 15:25-16:55 | <b>FE-4</b>                                     | Physical Exercise (TVIS), Day 3  |
| 15:55-17:55 | CDR   | IFM – prep for CHT test  |
| 16:20-16:25 | FE-3  | T2 Exercise Video Equipment Stow   |
| 16:25-16:45 | FE-3  | HMS Visual Testing Activity  |
| 16:25-17:55 | <b>FE-2</b>                                     | Physical Exercise (TVIS), Day 1  |
| 16:35-17:50 | FE-6  | CFE – equipment install  |
| 16:45-18:15 | FE-3  | Physical Exercise (ARED)   |
| 17:25-18:25 | <b>FE-1</b>                                     | Physical Exercise (TVIS), Day 2  |
| 17:55-18:25 | CDR   | Evening Work Prep  |
| 17:55-18:10 | <b>FE-2</b>                                     | CASKAD. Bioreactor Retrieval from Thermostatic Enclosure (+26 deg C) and setup in the enclosure at +4 deg C    |
| 18:10-18:25 | <b>FE-2</b>                                     | CASCADE Photography  |

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| 18:10-18:25 | FE-6   | JRNL - Journal Entry                        |
| 18:25-18:50 |  | Daily Planning Conference ( <i>S-band</i> ) |
| 18:50-19:30 | <b>FE-1, FE-2,</b><br>FE-3, <b>FE-4,</b><br>FE-6 | Evening Work Prep                           |
| 18:50-20:00 | CDR  | Pre-sleep                                   |
| 19:30-21:30 | <b>FE-1, FE-2,</b><br>FE-3, <b>FE-4,</b>         | Pre-sleep                                   |
| 19:30-21:00 | FE-6   |   |
| 20:00-20:15 | CDR  | VHF comm. check via US ground stations      |
| 20:15-21:10 | CDR  | Pre-sleep                                   |
| 21:00-21:30 | FE-6   | Conference at crew's request                |
| 21:25-21:30 | CDR  | Blood Draw Reminder                         |
| 21:10-21:25 | CDR  | EKAM Battery Swap                           |
| 21:30-06:00 |  | SLEEP                                       |

**Note:**

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
  4. **Russian crew uses US exercise equipment strictly per F24 or OSTPV**
  5. **No T2 Exercise between 19:35-20:05**
- End of Radiogram