

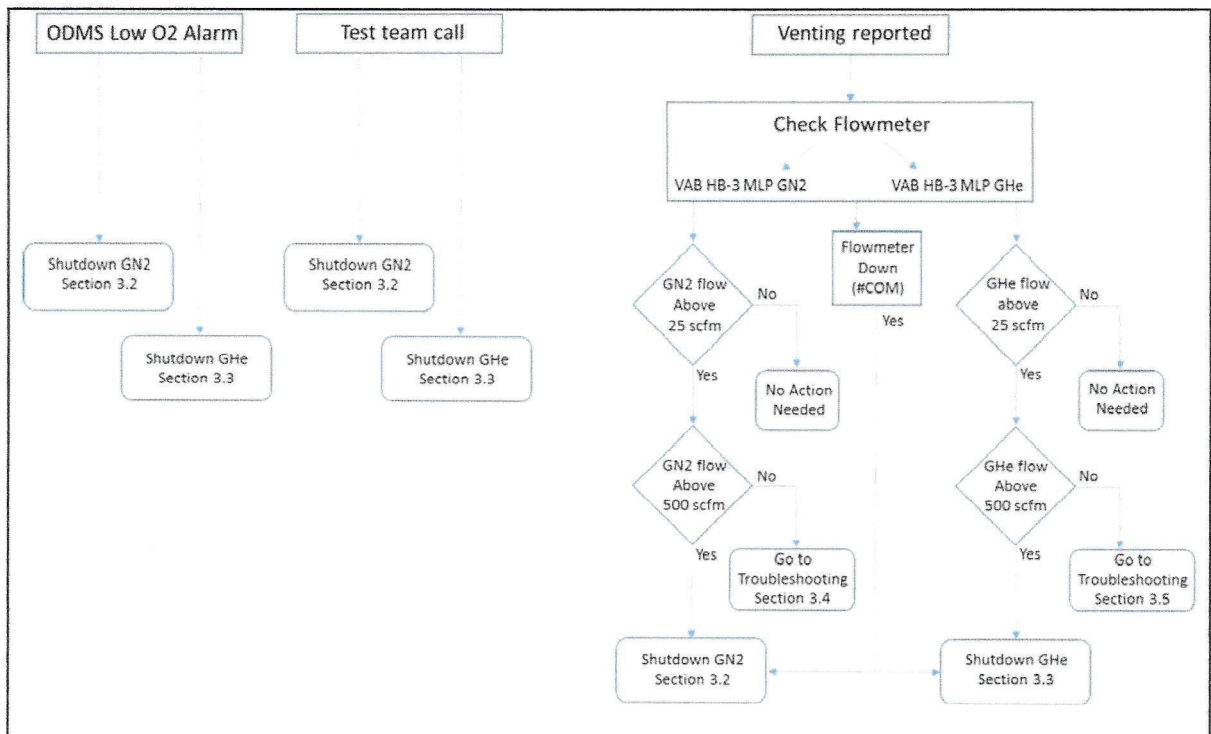
Title: Off-Shift Mobile Launcher GN₂ & GHe System Console Coverage
Number: ACA-KPLSS II-BOSS-OA-01

Revision: 0
Date: 10/1/2020

No.	Task / Description	Responsible Organization
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1.0	Purpose and Scope	KPLSS II/BOSS
1.1	Amentum Kennedy Propellants and Life Support Services II contract (KPLSS II) and PSP Base Operations and Spaceport Services (BOSS) require an agreement to provide off-shift operational control of the Mobile Launcher (ML) gaseous nitrogen and helium systems. The purpose of this agreement is to define the respective responsibilities of Amentum-KPLSS II and PSP-BOSS to properly operate the Mobile Launcher (ML) gaseous nitrogen and helium systems during off-shift hours. Unless KPLSS II, GSPN console engineers are supporting hazardous operations, the KPLSS II contract defines off-shift as 16:30 to 06:00 Monday through Friday, to include weekends and holidays. During normal shift hours, please contact CCF console utilizing existing call tree. The KPLSS II GSPN console engineer will notify PSP-BOSS upon activation and securing of GSPN console coverage. This OA is intended for BOSS to monitor and mitigate during nonoperational periods using the KPLSS II-provided guidelines that are contained in this Operational Agreement. Assuming adherence to the guidelines in this Operational Agreement, BOSS would not be held responsible for unsuccessful mitigation, or unresolved anomalies causing impacts to operations or system failures. This procedure will be initiated by upon occurrence during off-shift hours of: 1. An ODMS low O₂ alarm in the ML; 2. NTD or CTC requesting the GN₂/GHe systems be shut down; and/or 3. A large leak on the ML that is reported.	
2.0	Period of Performance	KPLSS II/BOSS
	October 1, 2020 through the period of performance for each contract.	

3.0	Specific Responsibilities: Processes and Responsible Individuals (RI's)	KPLSS II/BOSS
3.1	Initial Response to ML GN₂ and GHe System Issues (Alarms) 1. If ODMS low O₂ alarm is received: Proceed to GN₂ and GHe shutdown procedures in Sections 3.2 and 3.3. 2. If notified by test team to shutdown GN₂/GHe: Proceed to GN₂ and GHe shutdown procedures in Sections 3.2 and 3.3. 3. If venting is reported without ODMS low O₂ alarm: a. In KSSC, go to KCCS Flowmeter page: i. In the VAB: 1. Check flowrate on VAB HB3 MLP GN₂ 2. Check flowrate on VAB HB3 MLP GHe ii. At Pad B: 1. Procedure will be revised. b. If GN₂ flow is greater than 500 scfm, proceed to GN₂ shutdown procedure Section 3.2 c. If GHe flow is greater than 500 scfm, proceed to GHe shutdown procedure Section 3.3 d. If GN₂ flowrate is less than 500 but greater than 25 scfm sustained then proceed to GN₂ troubleshooting procedure Section 3.4. e. If GHe flowrate is less than 500 but greater than 25 scfm sustained then proceed to GHe troubleshooting procedure Section 3.5. f. If GN₂ flowrate is 25 or less, no actions needed. g. If GHe flowrate is 25 or less, no actions needed.	BOSS



3.2	ML GN2 System Shutdown Procedure: - Go to KCCS screen N3M. - Primary reg panel shutdown: - Close inlet valve A182793 - Close 5600 psig outlet valve A182849 - Set regulators A182794 and A182795 to 0 psig. - Secondary reg panel shutdown: - Close inlet valve A182913 - Close 5600 psig outlet valve A182969 - Set regulators A182914 and A182915 to 0 psig. - Notify test team that GN2 has been shut off. - Call KPLSS II using call tree (Attachment A) starting with Andrew Hoffacker at 321-289-7325 to report incident and initiate corrective actions.	BOSS
3.3	ML GHe System Shutdown Procedure: - Go to KCCS screen E1M. - Primary reg panel shutdown: - Close inlet valve A181718 - Close 5600 psig outlet valve A181774 - Set regulators A181719 and A181720 to 0 psig. - Secondary reg panel shutdown: - Close inlet valve A181818	BOSS

	b. Close 5600 psig outlet valve A181874 c. Set regulators A181819 and A181820 to 0 psig. 4. Notify test team that GHe has been shut off. 5. Call KPLSS II using call tree (Attachment A) starting with Andrew Hoffacker at 321-289-7325 to report incident and initiate corrective actions.	
3.4	ML GN₂ System Troubleshooting Procedure: 1. Request test team (NTD, CTC, JSTC) to determine if any pneumatic operations are in progress. If flow is expected, actions are complete. If flow is unexpected, proceed with troubleshooting steps below. 2. Contact Andrew Hoffacker at 321-289-7325. 3. If Andrew Hoffacker is not available, use KPLSS II call tree (Attachment A). 4. Implement KPLSS II directed actions with test team approval, if available. 5. If KPLSS II is unavailable and flow increase is unexplained, proceed to GN₂ shutdown Section 3.2.	BOSS
3.5	ML GHe System Troubleshooting Procedure: 1. Request test team (NTD, CTC, JSTC) to determine if any pneumatic operations are in progress. If flow is expected, actions are complete. If flow is unexpected, proceed with troubleshooting steps below. 2. Contact Andrew Hoffacker at 321-289-7325. 3. If Andrew Hoffacker is not available, use KPLSS II call tree (Attachment A). 4. Implement KPLSS II directed actions with test team approval, if available. 5. If KPLSS II is unavailable and flow increase is unexplained, proceed to GHe shutdown Section 3.3.	BOSS

Amentum/KPLSS II:

PSP/BOSS:

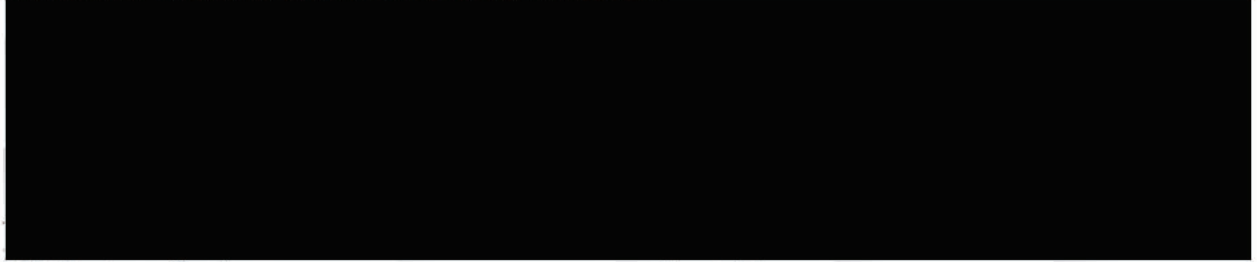
Leadership Group Approval Signatures:



Program Manager
Amentum-KPLSS II

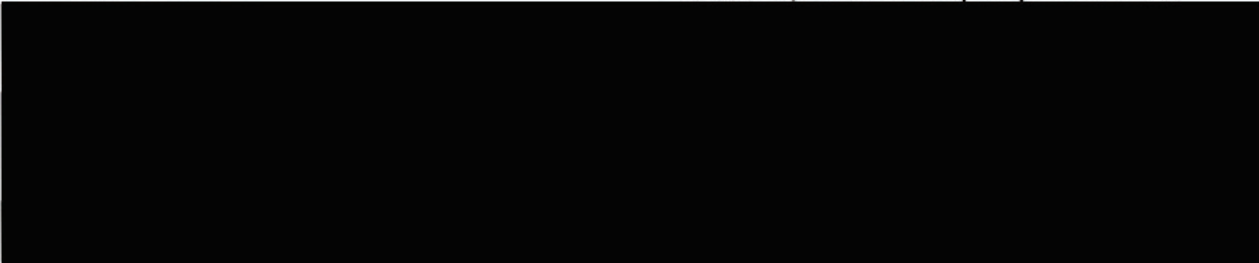
Program Director
PSP-BOSS

Functional Working Group Approval Signatures:



ML Systems Engineer
Amentum-KPLSS II

Dept. Manager
Mission Operations & Spaceport Services



Contracts Manager
Amentum-KPLSS II

Contracts Manager
PSP-BOSS

ATTACHMENT A

KPLSS II PNEUMATICS CONSOLE CALL TREE

