



ISS Ground Safety Review Panel: Safety Checklist and Package

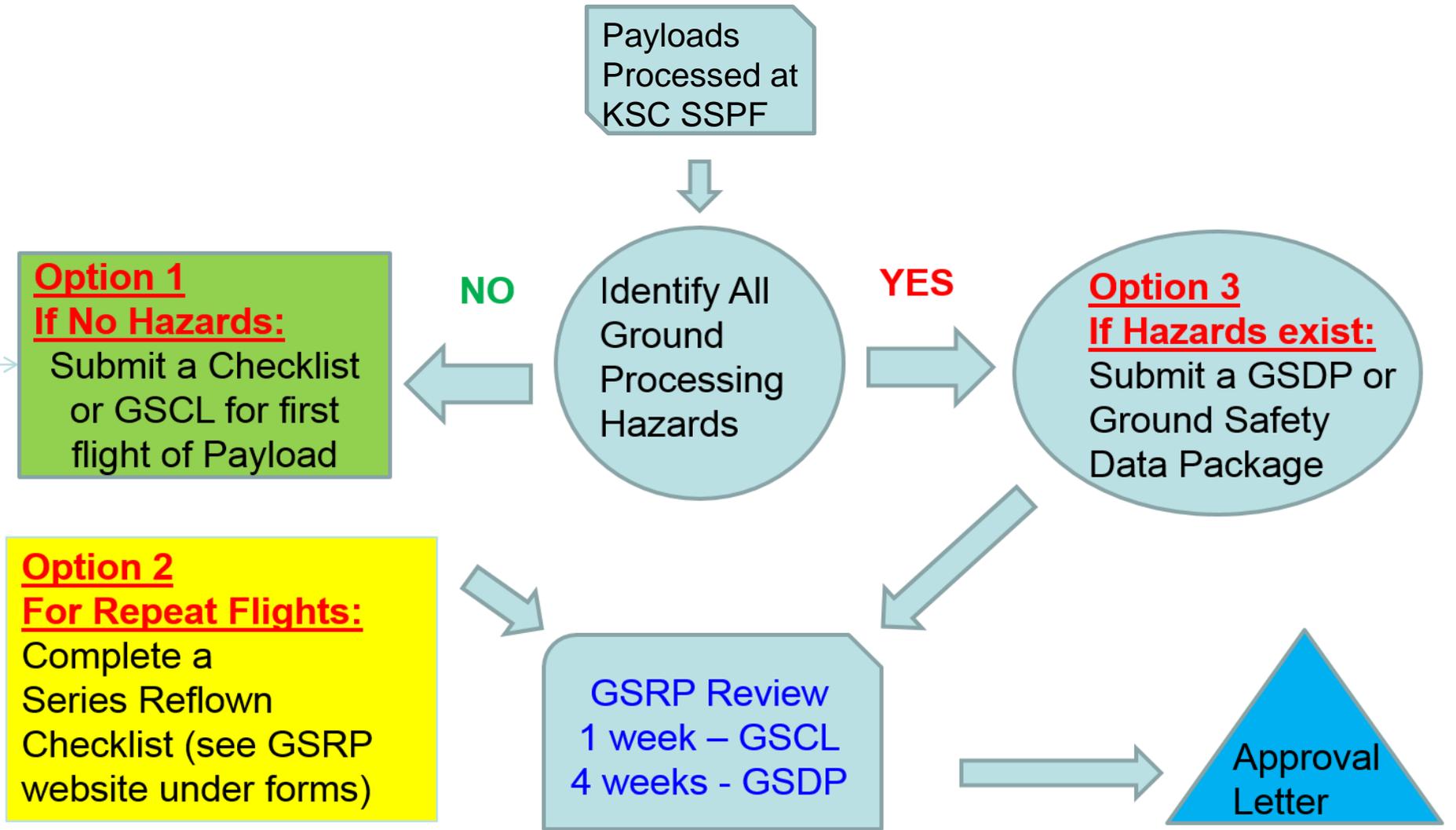
By:

Ravi Margasahayam
ISS KSC GSRP Payload Safety Engineer

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GSRP Review Flowchart



GSCL/GSDP: Must be received 45 days prior to on dock arrival/start of processing



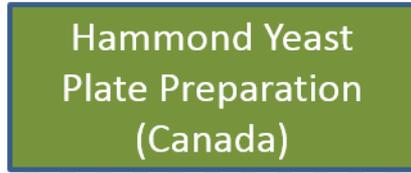
Ground Safety or Re-flight Checklist

- **GSCCL**: Typically used where there are no hazards; also used for item with minimal ground processing
- **Safety Process** : Contains 19 Yes/No questions concerning basic ground hazards; if re-flight use checklist on website
- GSRP will approve GSCCL even if the Flight Safety Package is not complete, as long as it is submitted and in review
- Responses to questions should consider ascent and return
- Multiple items can be submitted on one GSCCL as long as they are related – i.e., same system/subsystem – identify individual items by part number so that they can be tracked for future flights
- If a checklist was submitted and approved for a previous flight, it is acceptable as long as there no changes to hardware, ground process/operations, and no changes to the answers on the new GSCCL; if the prior GSCCL is greater than 6 months, a new GSCCL is required
- **Submittal**: 45 days prior to hardware on-dock arrival or start of payload ground processing operations

Generic Processing Flowchart



Off-Site Activities

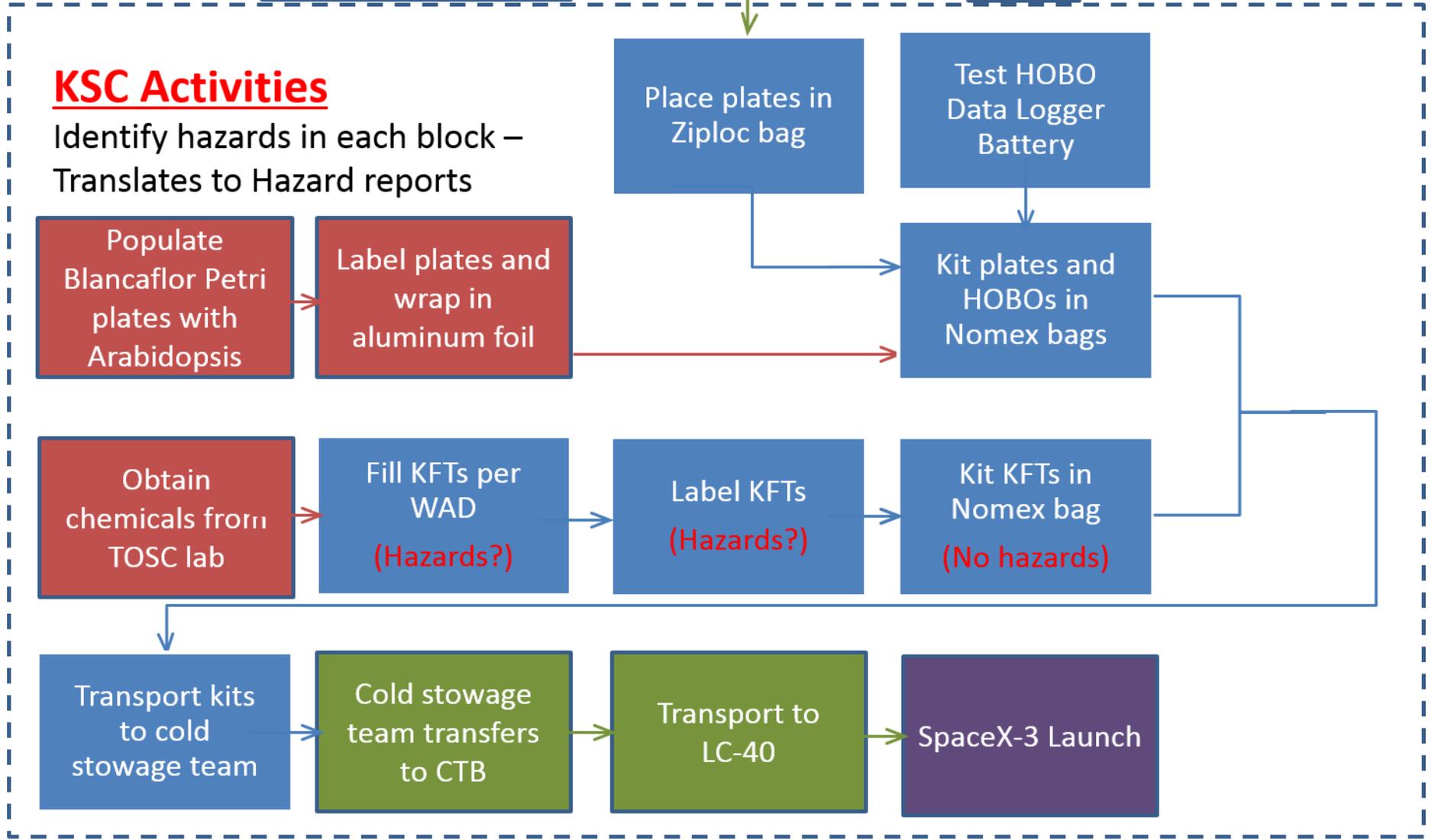
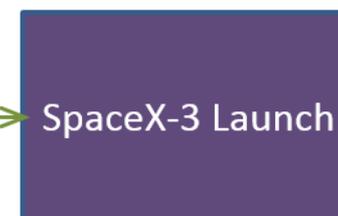
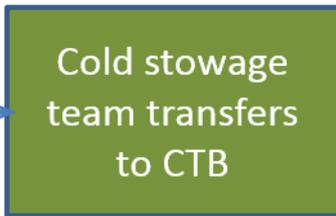
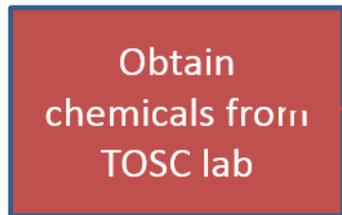
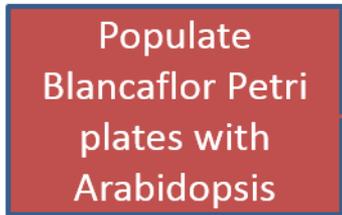


Primary Responsibility



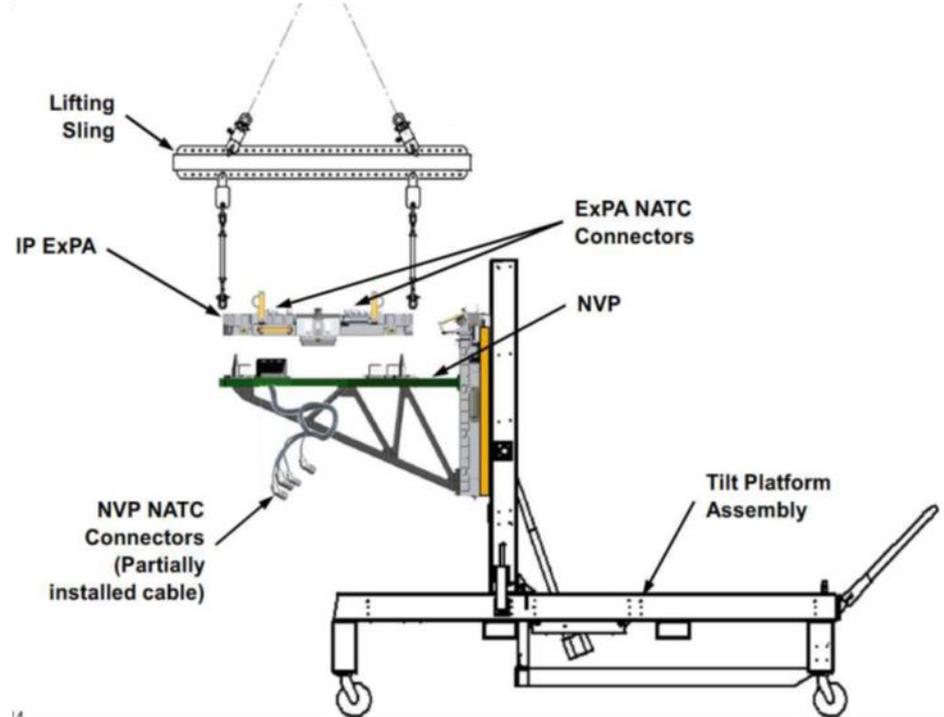
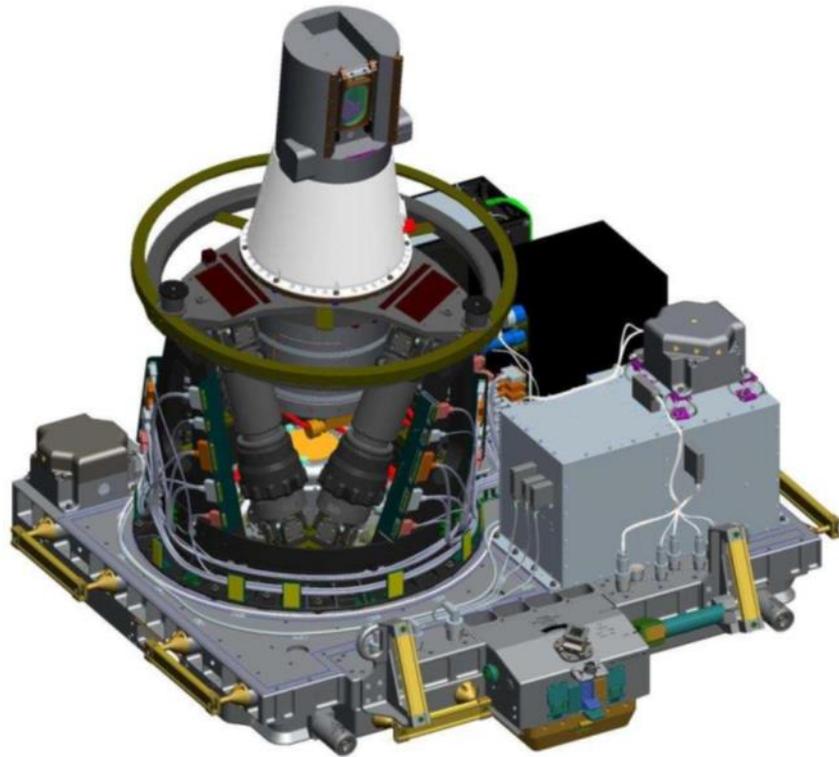
KSC Activities

Identify hazards in each block –
Translates to Hazard reports



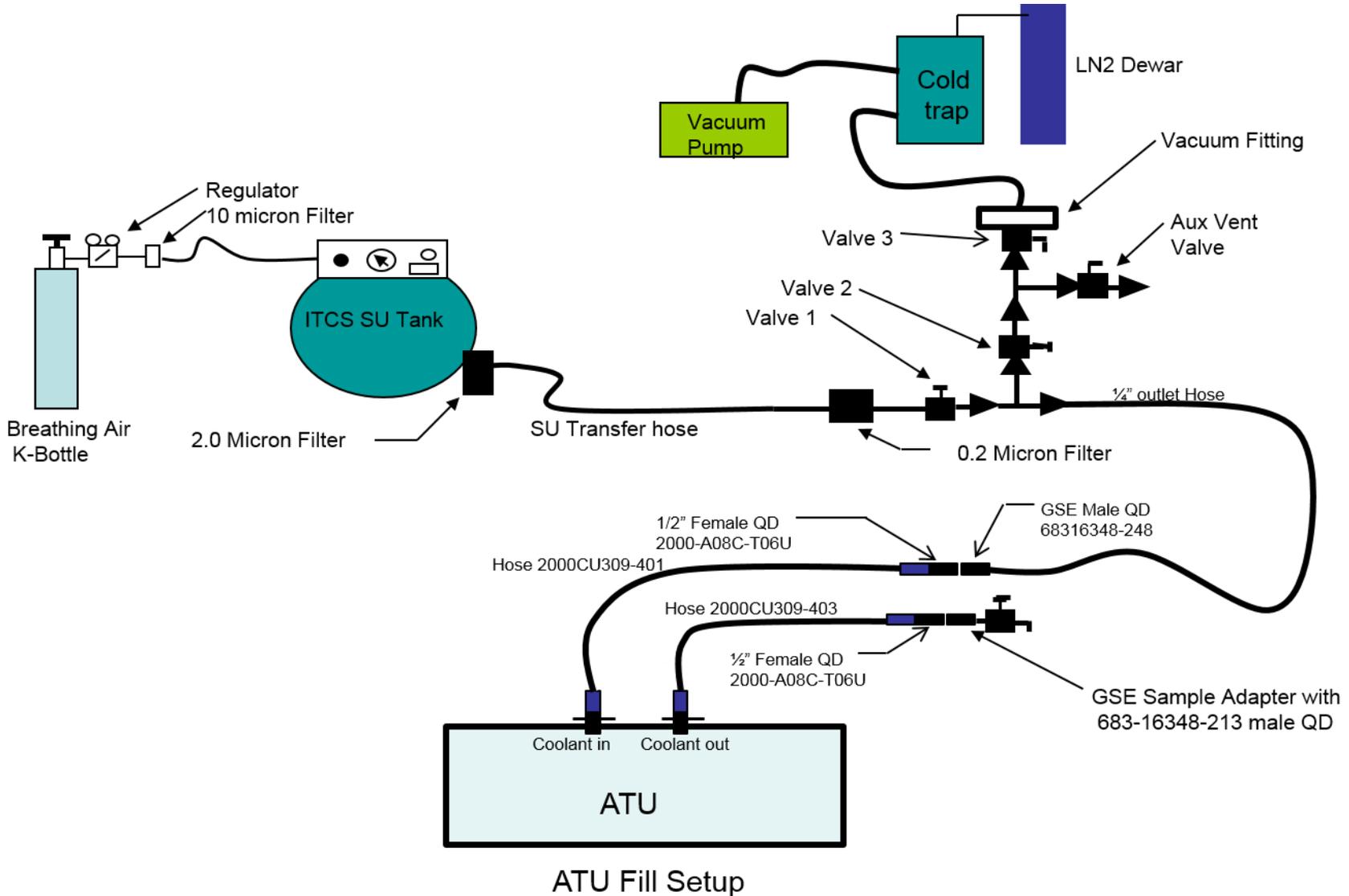


Hardware and Lifting Plan - Typical





Pressurized Systems: Line Diagram to ID Hazards





Ground Safety Data Package (GSDP)



- **GSDP**: Identify all ground processing hazards
- **Program/Safety Requirements** : 30599, Appendix J
- **Technical Requirements**: KNPR 8715.3, Chapter 20 (Rev. I)
- **Contents**: Acronyms, Applicable Documents
- **Safety Review Criteria**: Hazards for what you bring here and what you do here at KSC? Provide mitigation for each hazard
- **Description**: Flight Hardware, Pictures of Hardware, etc.
- **List**: Of all GSE PO will provide (need safety analysis); for KSC provided GSE PO will use (no safety analysis required)
- **Flow/Line Chart**: Details of PO's planned ground ops from arrival to departure, delays etc., use line/flow charts
- **Safety Discussion**: HR's (Form 542B) ; HR mitigation plan
- **NCR's**: Attach all Non-compliance Reports (ISS CM 031)
- **SVTL's**: All verification logs (ISS_OE_764) must be closed
- **Compliance**: Must have signed letter (JSC form 1114A)
- **Submittal**: 45 days prior to hardware on-dock arrival or start of payload ground processing operations



GSRP Website/Contact



- **GSRP Website**: All documents, Forms, Interpretation Letters reside here
- **<http://kscsma.ksc.nasa.gov/gsrp/index.htm>**
- **Signed Documents**: E-mail to –
- Ravi Margasahayam, Payload Safety Engineer
- Phone: 321-861-3786 (off); 407-455-1463(cell)
- E-mail: **Ravi.N.Margasahayam@NASA.gov**
- Original signatures not required
- GSRP review will be via Phone/E-mail
- GSRP will request all clarifications prior to final approval; work can start thereafter
- Sample GSDP's provided with UB approval