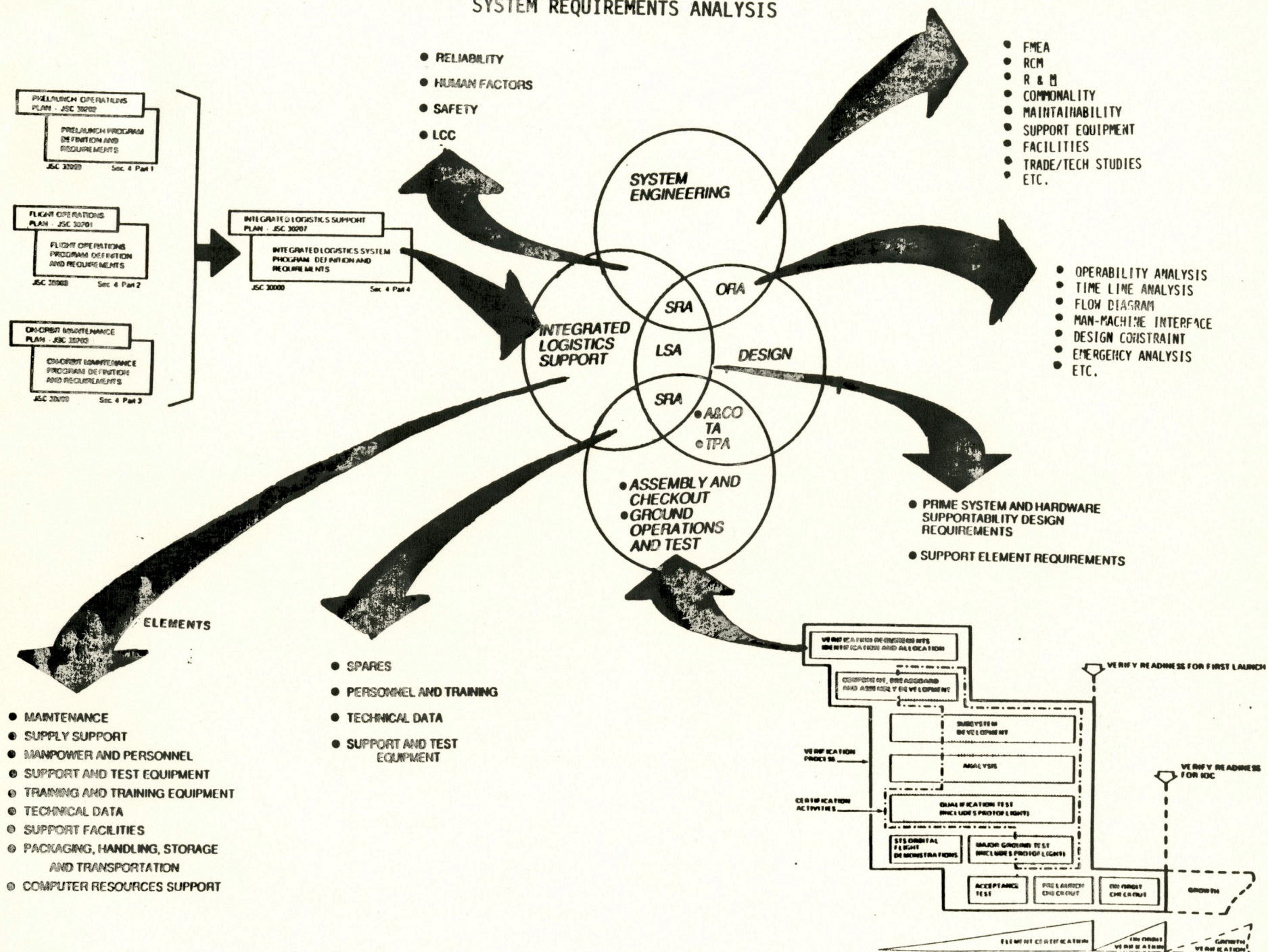


ILWG PRESENTATION
SYSTEM REQUIREMENT ANALYSIS (SRA)
LOGISTICS INTERFACES
LOGISTICS FLOW DIAGRAMS

C. H. LAUBACH
NASA-JSC-LEVEL B

SYSTEM REQUIREMENTS ANALYSIS



- 0 MAINTAINABILITY (M)

- 0 MAINTAINABILITY

- 0 PREDICTIONS
 - 0 MODELING INPUTS
 - 0 ALLOCATION
 - 0 DATA COLLECTION

- 0 FAULT DETECTION AND ISOLATION DESIGN APPROACH

- 0 RESULTS OF M ANALYSIS AND ITS IMPACT ON MAINTENANCE, LSA AND REPAIR LEVELS

- 0 MAINTENANCE AND LOGISTICS CONCEPTS

- 0 BUILT-IN-TEST/EXTERNAL TEST SYSTEMS/TESTER

- 0 PROJECTED MANPOWER SKILL REQUIREMENTS

- 0 MAINTAINABILITY DEMONSTRATION

- FMEA/FMECA

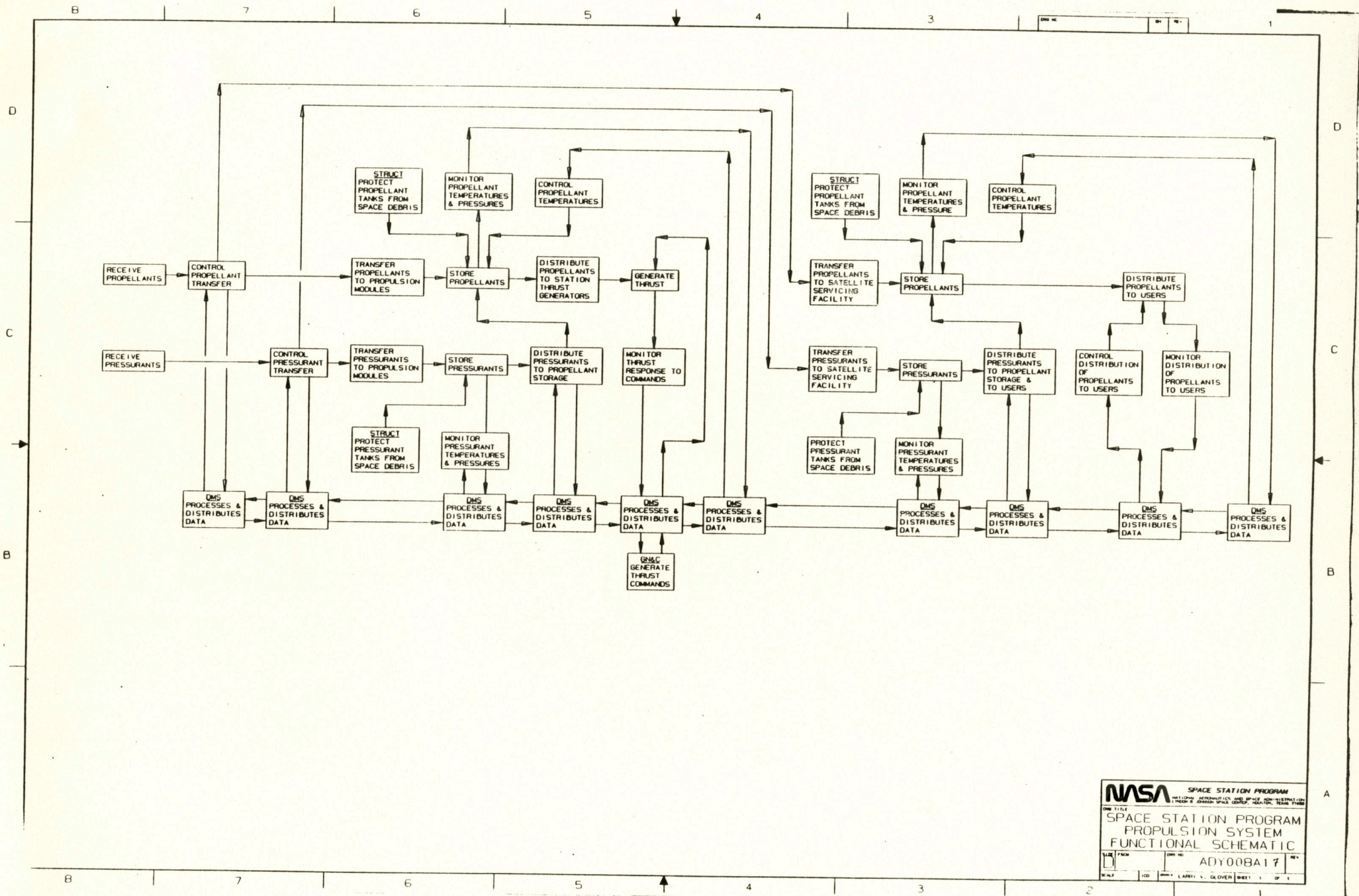
- IDENTIFICATION OF THE LIKELY MODES OF FAILURE
- EFFECT OF EACH FAILURE
- QUALITY INSPECTION POINTS
- OPERATIONAL CONSTRAINTS
- CRITICALITY TO:
 - MISSION SUCCESS
 - SAFETY
 - SUPPORTABILITY

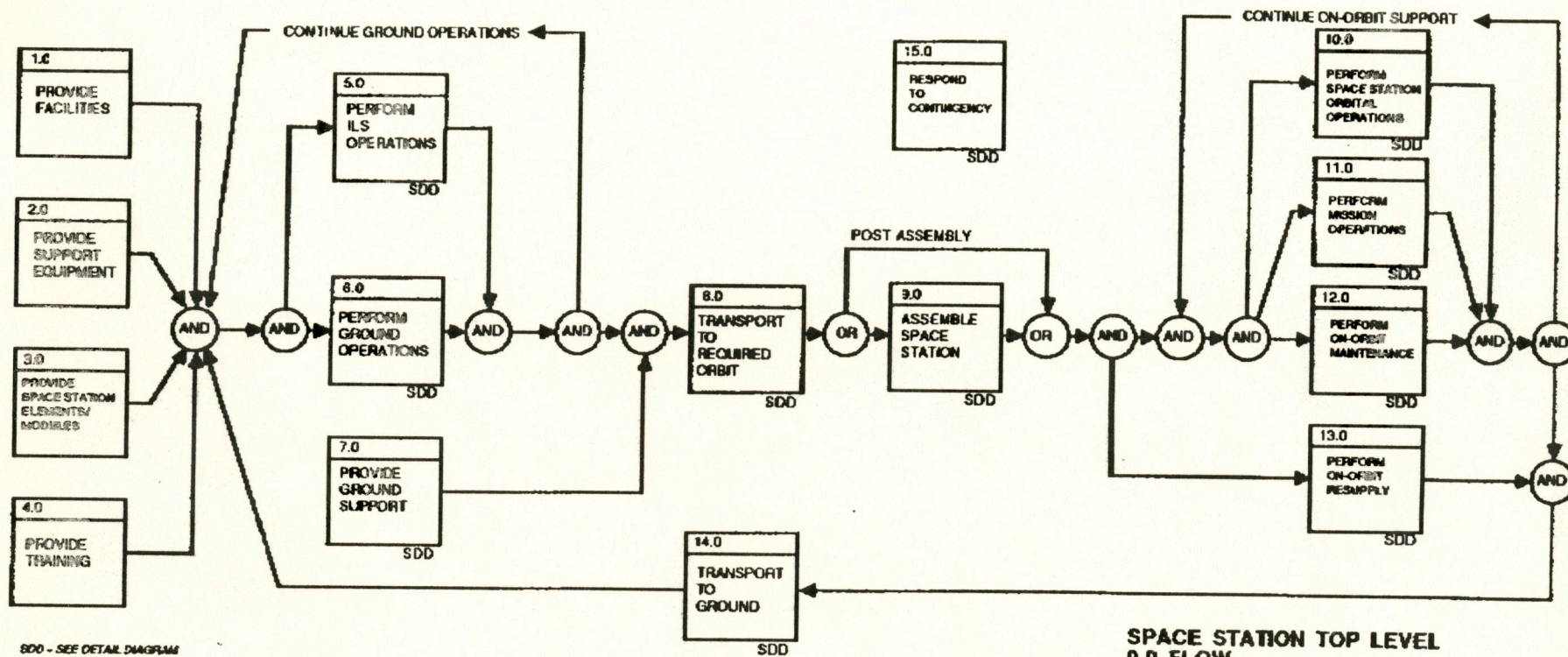
- RCM

- HIGHLIGHT THE MAINTENANCE PROGRAM AREAS FOR DESIGN
REVIEW CONSIDERATION
- DETERMINE THE FEASIBILITY OF PREVENTIVE MAINTENANCE
- DETERMINE THE DESIRABILITY OF PREVENTIVE MAINTENANCE
- DEVELOPMENT OF MOST EFFECTIVE PREVENTIVE MAINTENANCE
PROGRAM

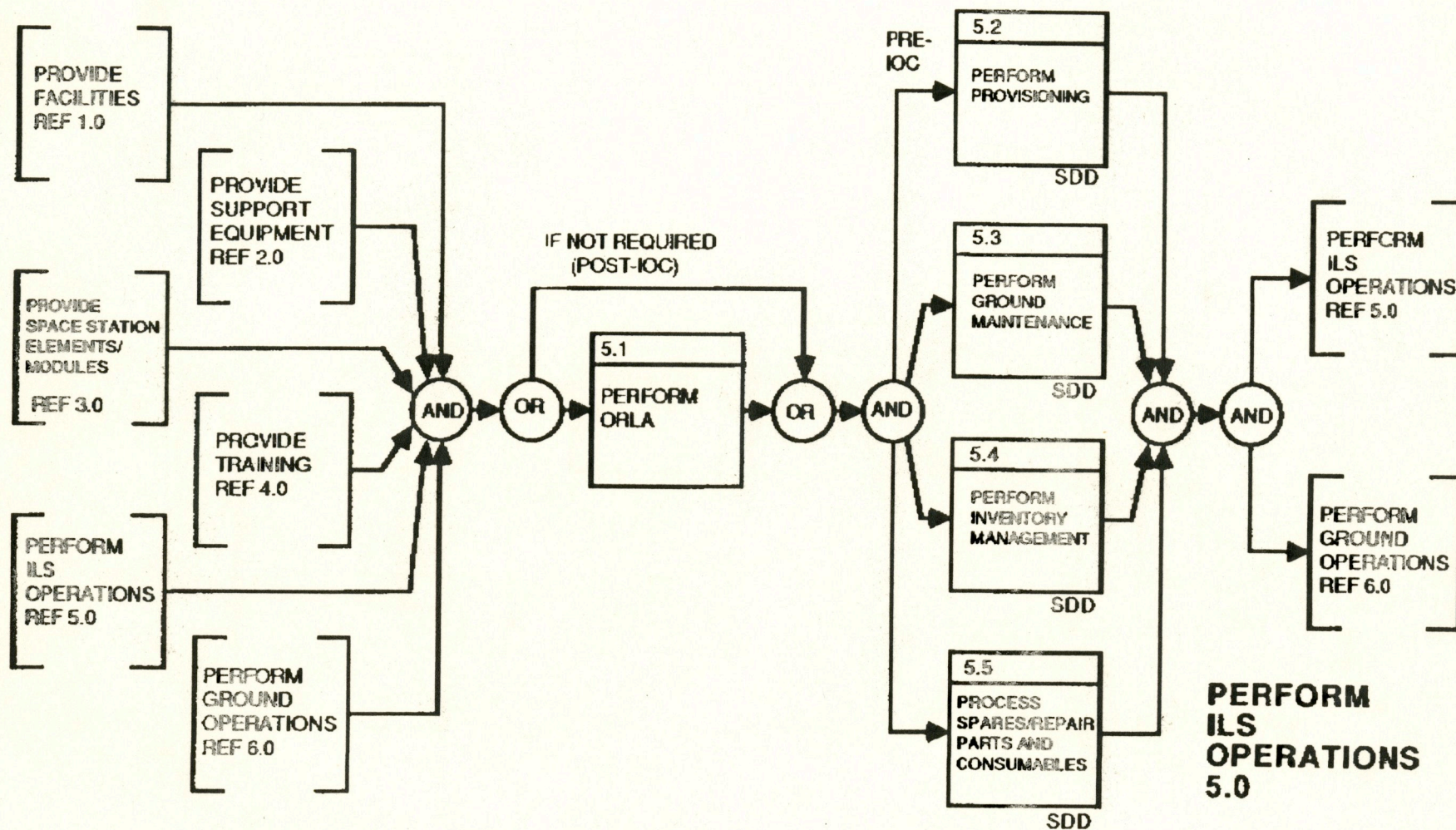
● R&M

- FUNCTIONS OF TIME (MANHOURS)
- ATTRIBUTES OF FAULT DETECTION AND ISOLATION
- MEAN-TIME-TO REPAIR (MTTR)
- MEAN-TIME-TO RESTORE SYSTEM (MTTRS)
- MISSION TIME TO RESTORE FUNCTION (MTTRF)
- DIRECT MANHOURS PER MAINTENANCE ACTION (DMH/MA)
- PROBABILITY OF FAULT DETECTION
- PROBABILITY OF FAULT ISOLATION

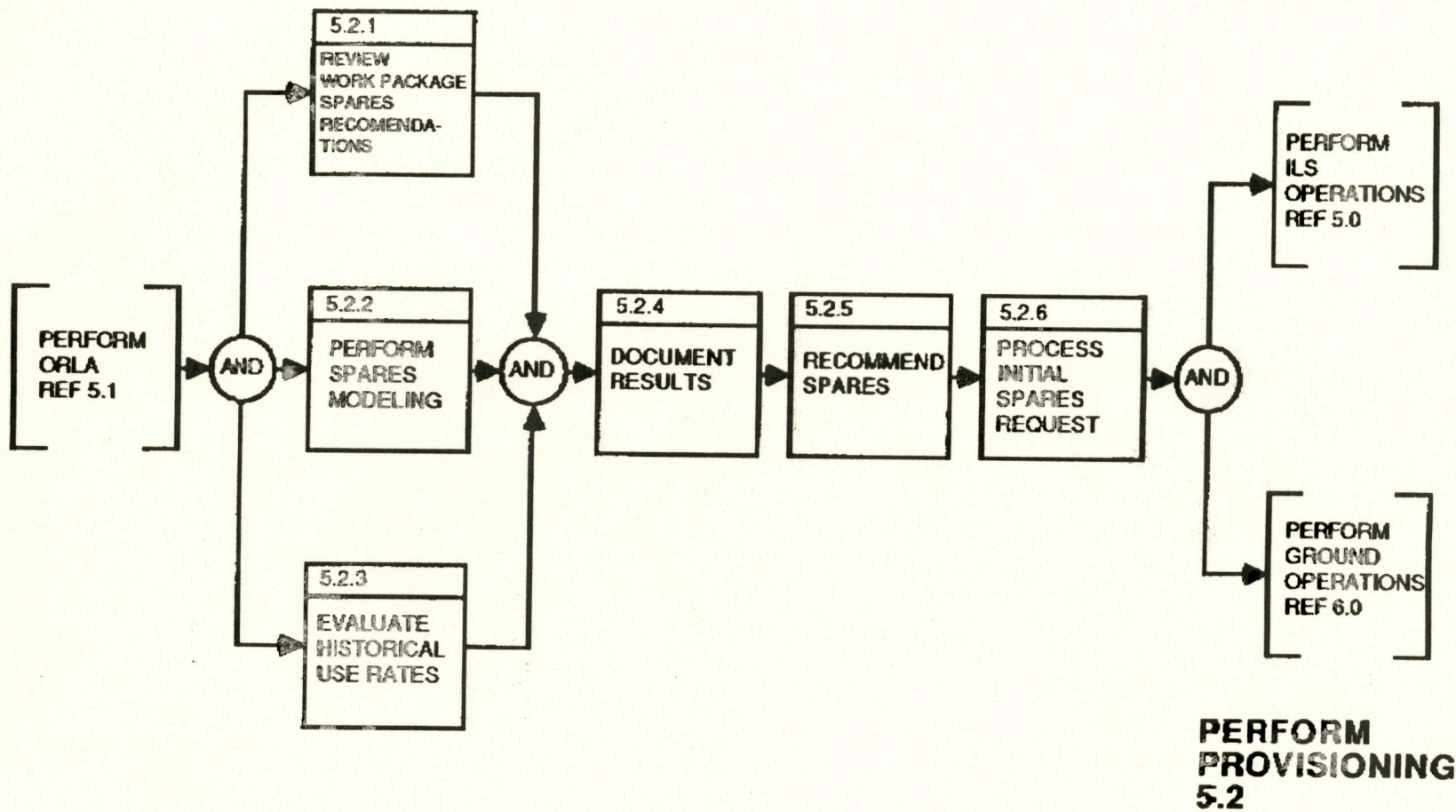


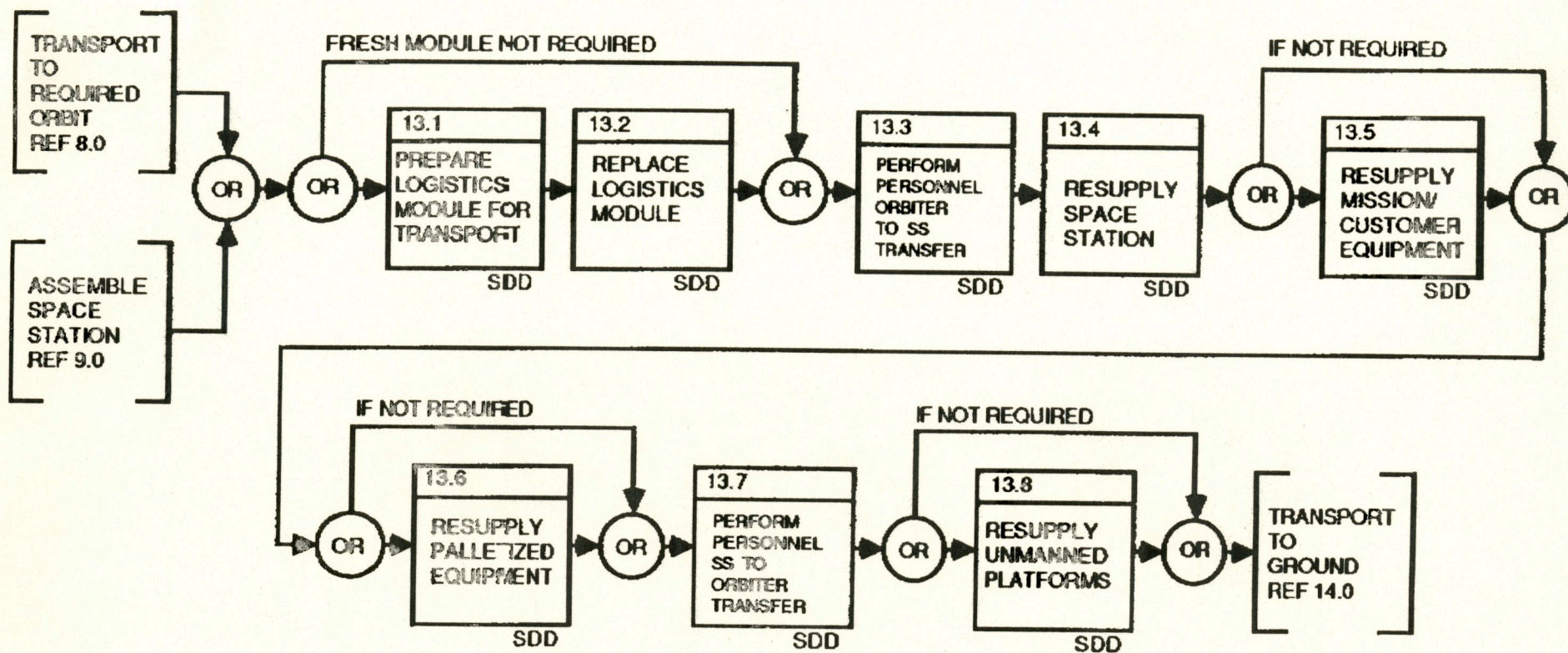


SPACE STATION TOP LEVEL
0.0 FLOW



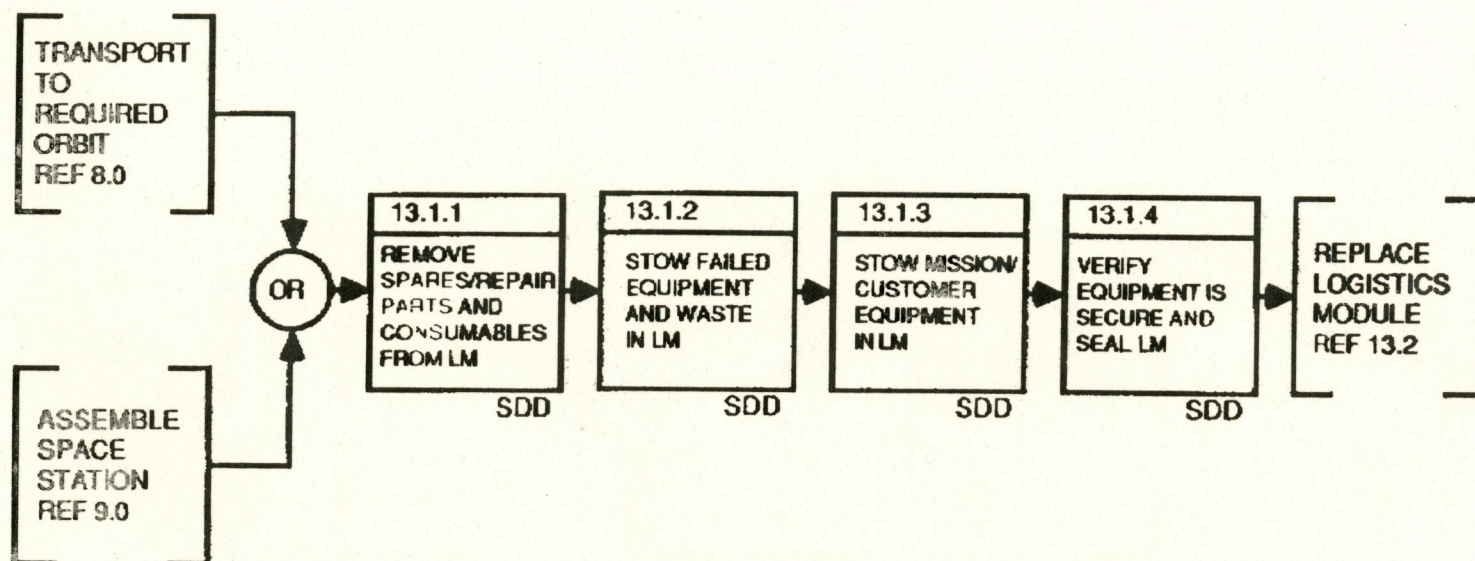
SDD=SEE DETAIL DIAGRAM





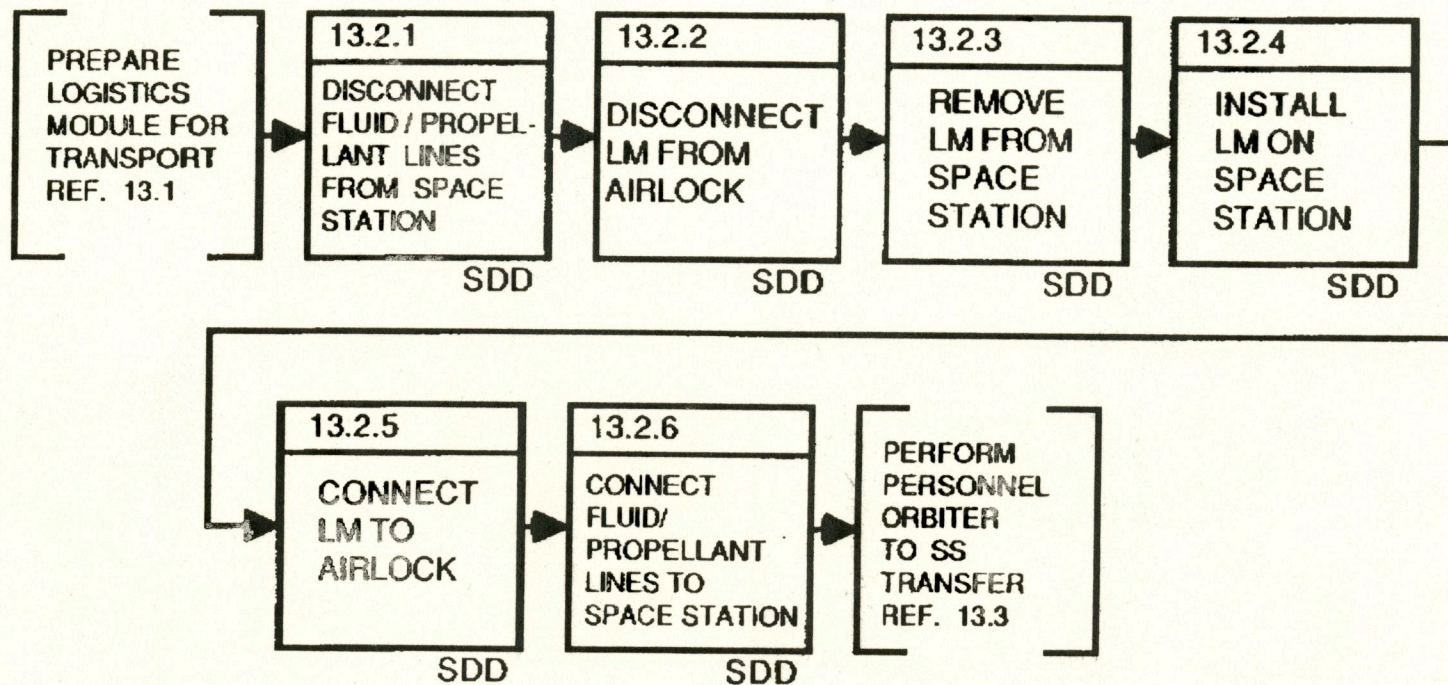
SDD = SEE DETAIL DIAGRAM

**PERFORM ON-ORBIT
RESUPPLY
13.0**



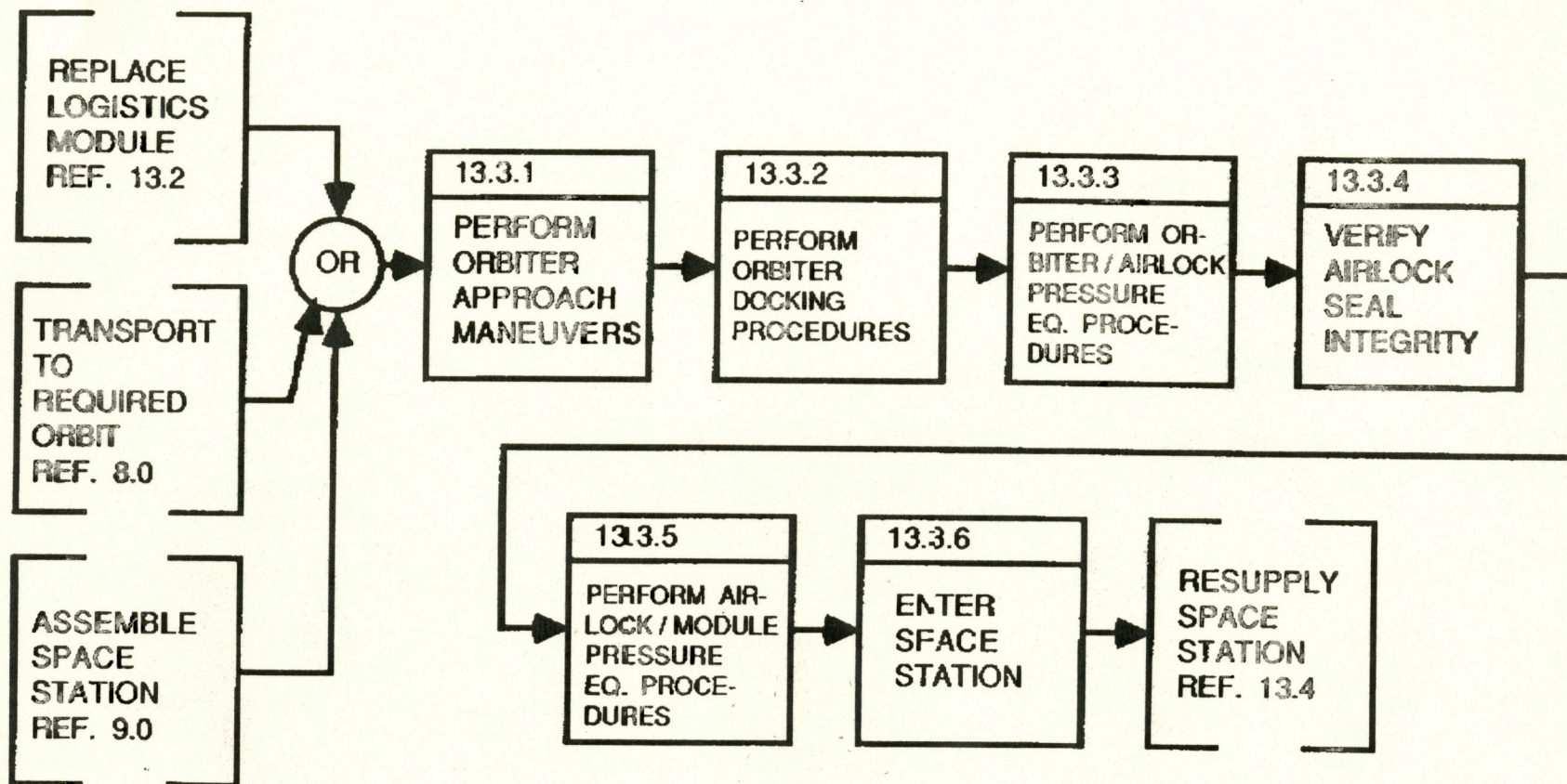
SDD=SEE DETAIL DIAGRAM

PREPARE LOGISTICS MODULE FOR TRANSPORT 13.1



SDD = SEE DETAILED DIAGRAM

**REPLACE LOGISTICS MODULE
13.2**



PERFORM PERSONNEL
ORBITER TO SS
TRANSFER
13.3

FUNCTIONAL FLOW BLOCK NUMBER: _____
FLOW BLOCK TITLE: _____
LOGISTICS CONTROL NUMBER: _____

APPROVAL DATE: 00-00-00

<input type="checkbox"/>	GROUND	<input type="checkbox"/>	CRITICAL	<input type="checkbox"/>	IVA	<input type="checkbox"/>	ON-LINE
<input type="checkbox"/>	ON-ORBIT	<input type="checkbox"/>	NON-CRITICAL	<input type="checkbox"/>	EVA	<input type="checkbox"/>	OFF-LINE

FUNCTIONAL DESCRIPTION:

<input type="checkbox"/>	MSE	<input type="checkbox"/>	TECHNICAL DATA	<input type="checkbox"/>	PERSONNEL	<input type="checkbox"/>	FACILITY	<input type="checkbox"/>	GSE	<input type="checkbox"/>	FLIGHT ELEMENT
<input type="checkbox"/>	INVENTORY SYSTEM	<input type="checkbox"/>	DATA MANAGEMENT SYSTEM	<input type="checkbox"/>	P, H, & T	<input type="checkbox"/>	FOOD PROCESSING	<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>	FUELS AND PROPELLANT SERVICING	<input type="checkbox"/>	WASTE MANAGEMENT	<input type="checkbox"/>	OTHER	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

SPECIFIC ALLOCATION: _____

REQUIREMENT:

JUSTIFICATION:

