TCS PDR PART 2 (DAY 1) AGENDA

0830 - 0845	OPENING REMARKS
0845 - 0900	PROCESS REVIEW
0900 - 0915	SUBSYSTEM PRELIMINARY DESIGN & IMPLEMENTATION
0915 - 0945	SYSTEM INTEGRATION AND TEST
0945 - 1200	AV COMMUNICATIONS SUBSYSTEM
1200 - 1230	WORKING LUNCH
1230 - 1300	AV COMMUNICATIONS SUBSYSTEM (CONT'D)
1300 - 1445	REAL-TIME SUBSYSTEM
1445 - 1500	PAYLOAD SUBSYSTEM
1500 - 1630	OPERATOR STATION SUBSYSTEM
1630 - 1700	COMMUNICATIONS SUBSYSTEM
1700 - 1800	CONFIGURATION DEPENDENT SUBSYSTEMS
1800 - 1830	ACTION ITEM REVIEW

TCS PDR PART 2 (DAY 2) AGENDA

0830 - 0845	OPENING REMARKS
0845 - 0900	SOFTWARE CSCI / CSC PRELIMINARY DESIGN
0900 - 0930	PDCM CSCIs / CSCs
0930 - 1000	ODCM CSCIs / CSCs
1000 - 1045	RTP CSCI / CSCs
1045 - 1130	DATA SERVER CSCI / CSCs
1130 - 1200	DII CSCI / CSCs
1200 - 1230	WORKING LUNCH
1230 - 1315	ROUTE AND PAYLOAD PLANNER CSCI / CSCs
1315 - 1545	COMMON AV SOFTWARE CSCI / CSCs
1545 - 1600	FAULT DETECTION/LOCALIZATION - SYSTEM DIAGNOSTIC CSCI / CSCs
1600 - 1615	AV DIAGNOSTIC CSCI / CSCs
1615 - 1715	ACTION ITEM REVIEW
1715 - 1730	CLOSING REMARKS

TCS PDR PART 2 (DAY 1) DETAILED AGENDA

0830 - 0845		OPENING REMARKS			CAPT WITTE / LISA COLUZZI
0845 - 0900		PROCESS REVIEW			STEVE DANIEL
0900 - 0915		SUBSYSTEM PRELIMINARY DESIGN &			DAN MALLOY
0915 - 0945		SYSTEM INTEGRATION AND TEST			AL NUSS
0945 - 1000		AV COMMUNICATIONS SUBSYSTEM			DAN MALLOY
1000 - 1030			C-BAND LOS ANTENNA		PAUL WORLEY
1030 - 1100			INTEGRATED DATA TERMINAL		DARREL WEBB
1100 - 1115			Ku-BAND SATCOM ANTENNA		GEORGE S GHOSN
1115 - 1130			Ku-BAND DOWNSIZED LMA		STEVE HUSSMAN
1130 - 1200			PREDATOR DCM		GENERAL ATOMICS
1200 - 1230		WORKING LUNCH			
1230 - 1300			OUTRIDER DCM		ALLIANT TECHSYSTEMS
1300 - 1315		REAL-TIME SUBSYSTEM			DAN MALLOY
1315 - 1330			REAL-TIME COMPUTER		MIKE HENTHORNE
1330 - 1400			MANUAL CONTROLS		SAM PETERS
1400 - 1430			AIR VEHICLE STANDARD INTERFACE		STEVE OWEN
1430 - 1445			DATA SERVER COMPUTER		MIKE HENTHORNE
1445 - 1500		PAYLOAD SUBSYSTEM			DAN MALLOY
			SAR SUBSYSTEM		
			FUTURE PYLD SUBSYSTEM		
1500 - 1515		OPERATOR STATION SUBSYSTEM			DAN MALLOY
			NON-REAL TIME COMPUTER		
1515 - 1545			CHS II		MIKE HENTHORNE
1545 - 1615			TAC-4		MIKE HENTHORNE
1615 - 1630			VIDEO SUPPORT		MIKE HENTHORNE
1630 - 1700		COMMUNICATIONS SUBSYSTEM			DAN MALLOY
			C4I SUPPORT EQUIPMENT		PETER BLOCKER
			EXTERNAL STORAGE		PETER BLOCKER
			INTERCOM EQUIPMENT		PETER BLOCKER
			EXCOM EQUIPMENT		PETER BLOCKER
1700 - 1800		CONFIGURATION DEPENDENT SUBSYSTEMS			DAN MALLOY
			TACTICAL OPERATIONS CENTER		MIKE HENTHORNE
			LAND-BASED SHELTERIZED		MIKE HENTHORNE
			SEA-BASED		MIKE HENTHORNE
			POWER DISTRIBUTION SUBSYSTEM		RICK ADKINS
			POWER DISTRIBUTION		RICK ADKINS
			UPS		RICK ADKINS
1800 - 1830		ACTION ITEM REVIEW			BILL KATZ

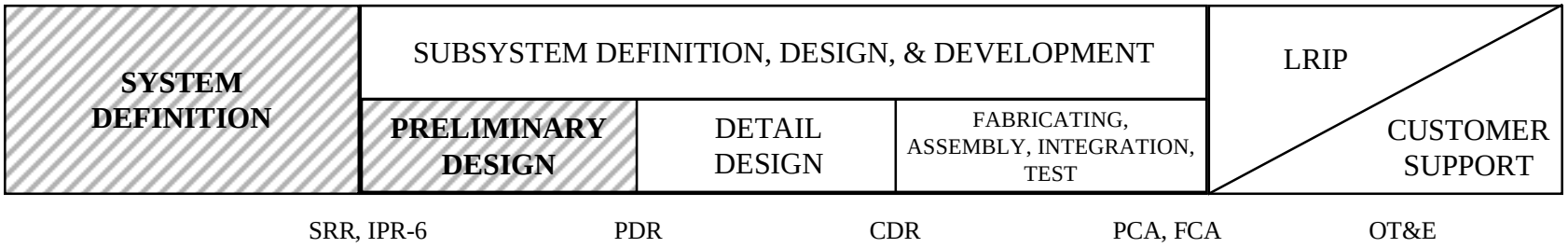
TCS PDR PART 2 (DAY 2) DETAILED AGENDA

0830 - 0845		OPENING REMARKS			STEVE DANIEL
0845 - 0900		SOFTWARE CSCI / CSC PRELIMINARY DESIGN			BILL SULLIVAN
0900 - 0930		PDCM CSCIs			GENERAL ATOMICS - ASI
0930 - 1000		ODCM CSCIs			ALLIANT TECHSYSTEMS
1000 - 1045		RTP CSCI			ADAM HEY
			ANTENNA CONTROL CSC		
			AVSI I/F CONVERSION CSC		
			RTP MAIN CSC		
			RTP DS CSC		
			MANUAL CONTROLS CSC		
1045 - 1130		DATA SERVER CSCI			DAVE GRIZZARD
			DS API CSC		
			RADE CSC		
			I/F DRIVER CSC		
			DS CSC		
1130 - 1200		DII CSCI			MIKE FUGATE
1200 - 1230		WORKING LUNCH			
1230 - 1315		ROUTE AND PAYLOAD PLANNER CSCI			BILL AUMACK
1315 - 1545		COMMON AV SOFTWARE CSCI			BILL SULLIVAN
			TCS MAIN CSC		
			AV FLIGHT MONITOR CSC		
			AV FLIGHT MONITOR EXTENDED CSC		
			EO/IR/IMAGERY VIEWER CSC		
			IMAGERY PROCESSING & DATA EXTRACTION CSC		
			EO/IR PAYLOAD CONTROL CSC		
			AV CONTROL CSC		
			DATALINK MANAGEMENT & CONTROL CSC		
			TACTICAL MESSAGES CSC		
			SYSTEM SETUP CSC		
			GRAPHIC ENGINE CSC		
			TRAINING CSC		
			LAUNCH & RECOVERY CSC		
			MISC: TOOLS & UTILITIES CSC		
1545 - 1600		FAULT DETECTION/LOCALIZATION - SYSTEM DIAGNOSTIC CSCI			BILL SULLIVAN
1600 - 1615		AV DIAGNOSTIC CSCI			BILL SULLIVAN
1615 - 1715		ACTION ITEM REVIEW			BILL KATZ
1715 - 1730		CLOSING REMARKS			CAPT WITTE/LISA COLUZZI

TCS PRELIMINARY DESIGN REVIEW PART 2

SUBSYSTEM HWCI DESIGNS & CSCI DESIGNS

RELATIONSHIP TO SRR, IPRs



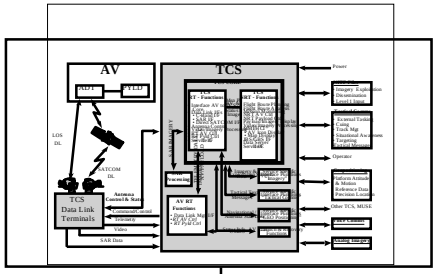
- In-Process Reviews (IPRs) have been routinely conducted - 6 IPRs have been held to date. This PDR is a formal in depth review, but is a follow-on to these IPRs.

- IPRs collectively represent the System Design Review (SDR) found in MIL-STD-1521B- the level of detail has been tailored to fit the schedule and program engineering methodologies.

- System Requirements Review was conducted in September 1997 - format was based upon tailored MIL-STD-1521 and EIA IS- 632. See Formal Report distributed under NSWCDD ltr Ser 8800-K05

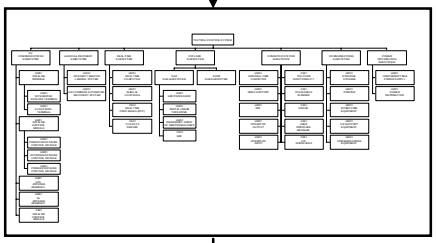
- Preliminary Design Review (PDR) for this program will also be based upon a tailored MIL-STD-1521, and use guidance from EIA IS-632 and IEEE-1220-1994.

REVIEW FOCUS



- System RQMTS
- RQMTS Allocation
- RQMTS Traceability
- System Top Level Design
- System Inputs / Outputs
- Subsystem Identification

• HWCIs

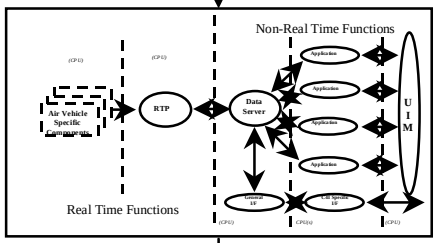


- Hardware Design Overview
- Equipment Layout Drawings
- Environment Control
- Electromagnetic Compatibility
- Power Distribution & Grounding
- Packaging
- Weight Data
- Description of COTS & Documentation

• OPERATOR

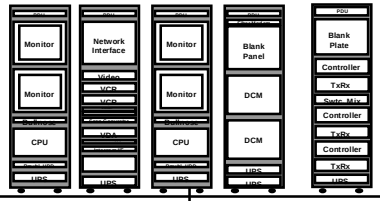
- Operators Manuals
- Technical Manuals
- Maintenance Manuals

• CSCIs



- Software Design
- CSCI Structure
- Operational Flow
- HCI
- Description of COTS & GOTS
- Documentation
- Development Tools (Present & Future)
- TCS/MUSE Integration Plans

• INTEGRATION & TEST

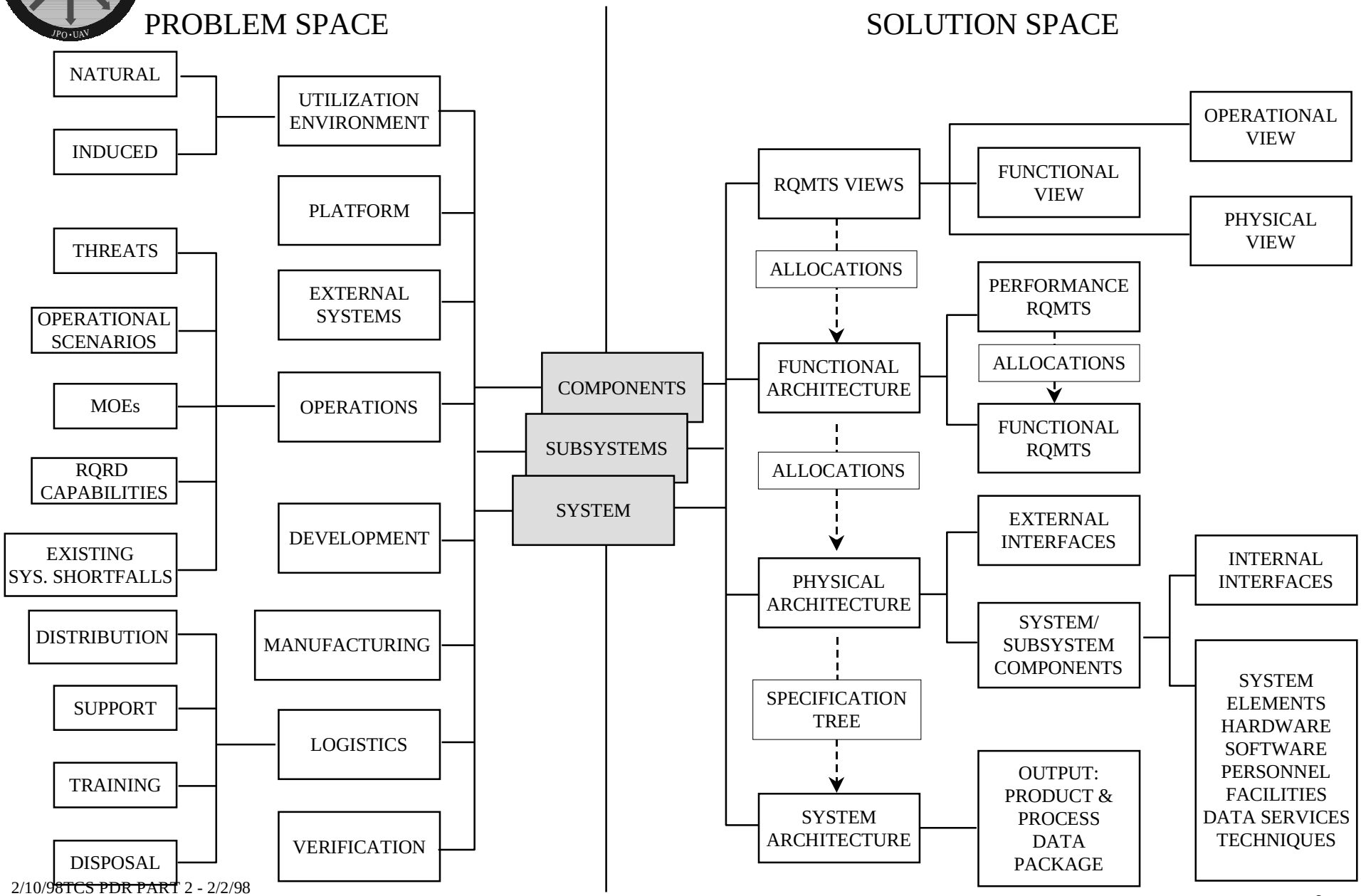


- Test Process
- SW Integration Plans
- Test Tools
- System Integration & Testing
- Demo Plans/Objectives
- DT/OT
- Implementation Plans
- Risks/Mitigation Plans

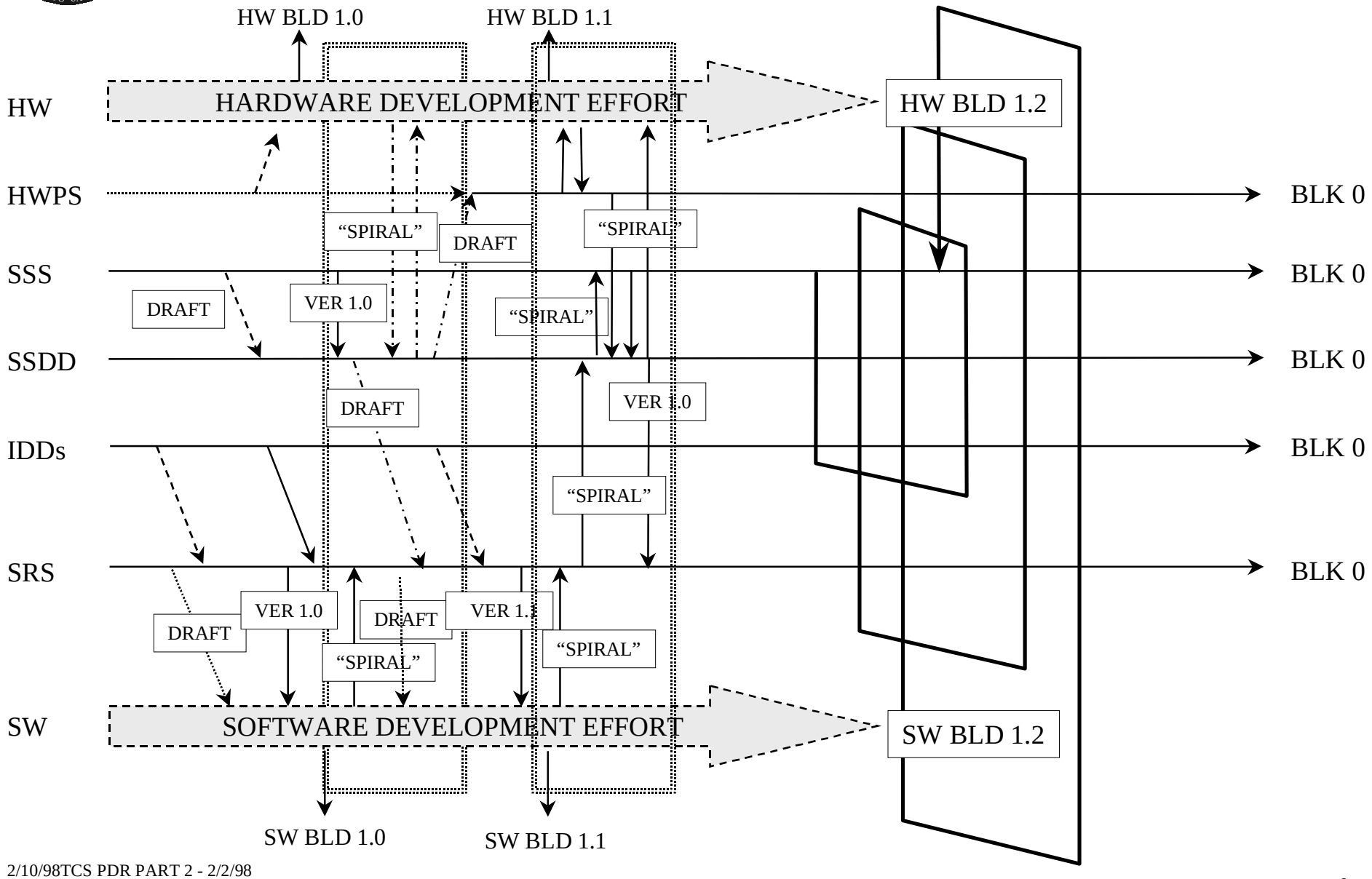
• LOGISTICS

- Logistic Support Analysis
- System Maintenance Concept
- Life-Cycle Cost Analysis
- Design Reliability
- Design Maintainability
- Technical Manual Plans
- Training Plans

SYSTEMS ENGINEERING

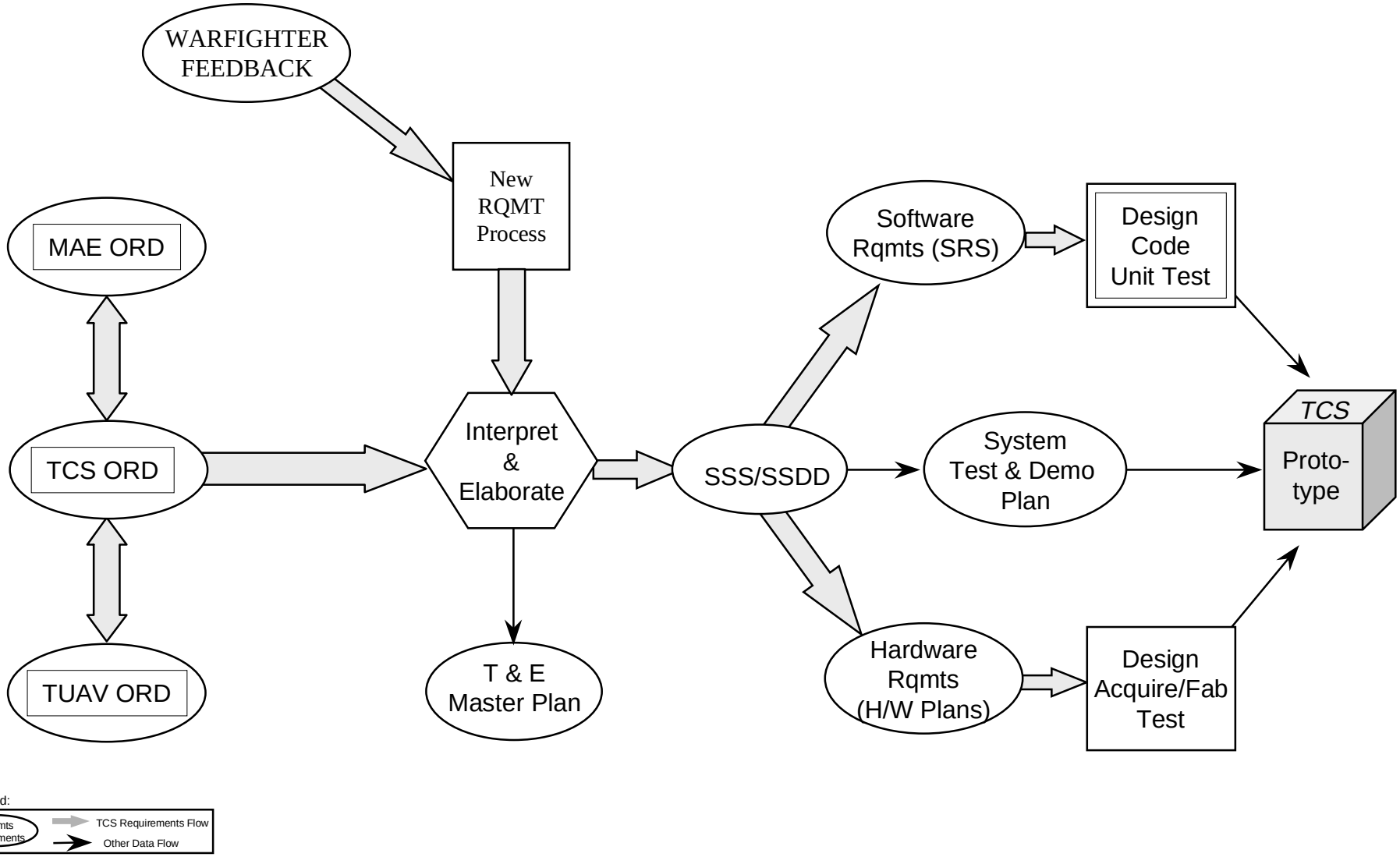


INCREMENTAL, EVOLUTIONARY, CONCURRENT, SPIRAL ENGINEERING

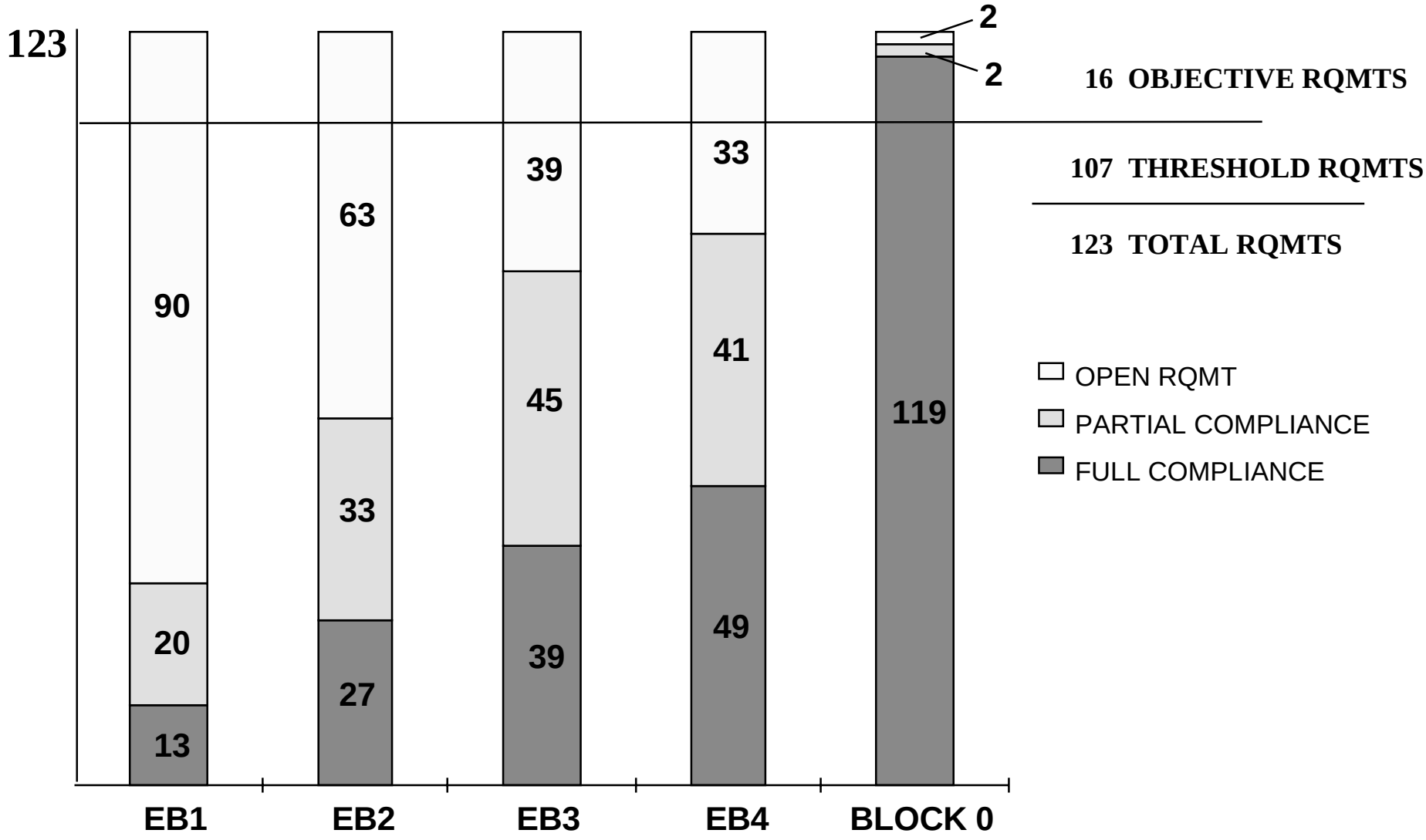


REQUIREMENTS PROCESS

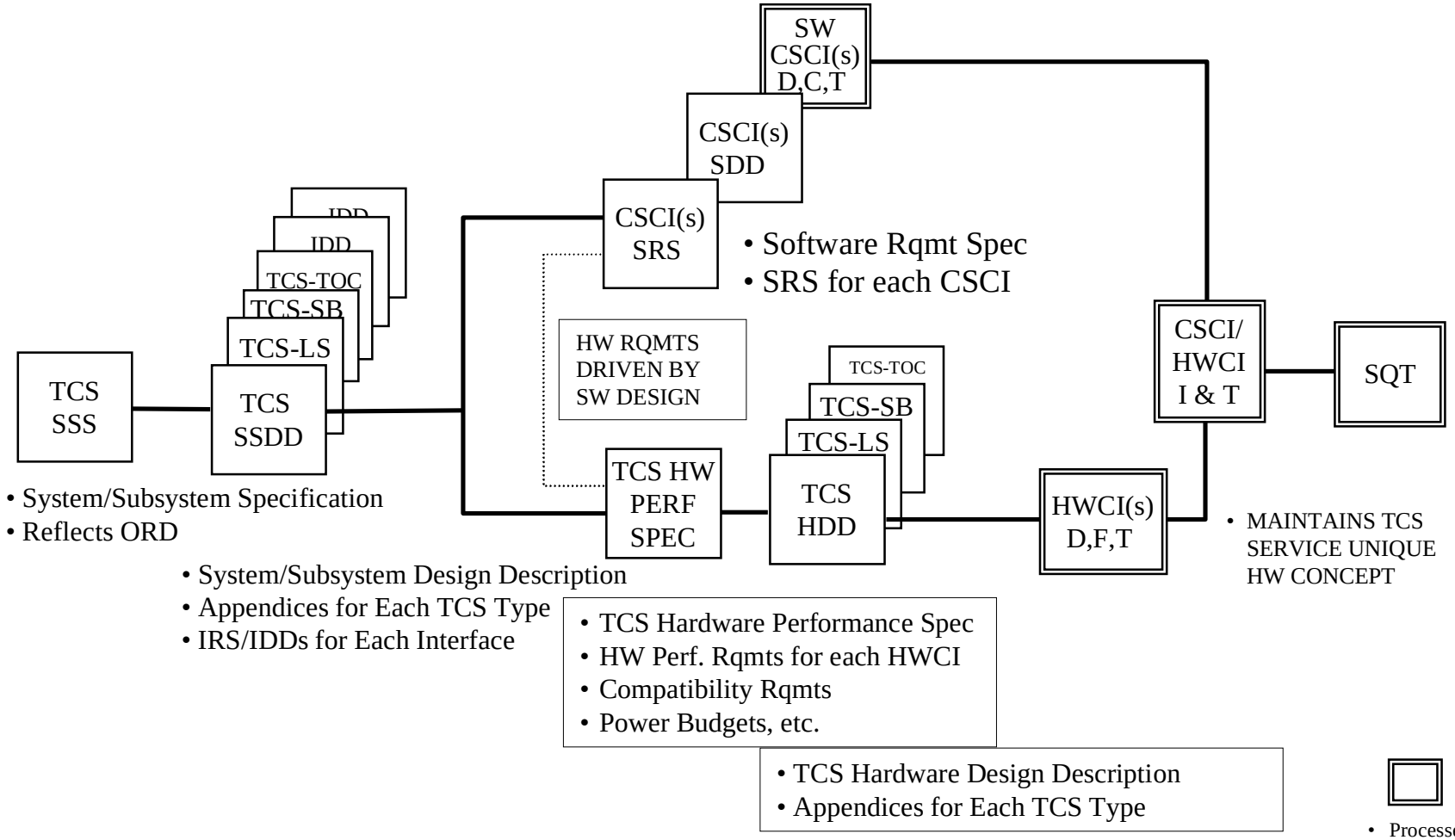
OPERATIONAL REQUIREMENTS FLOW MODEL



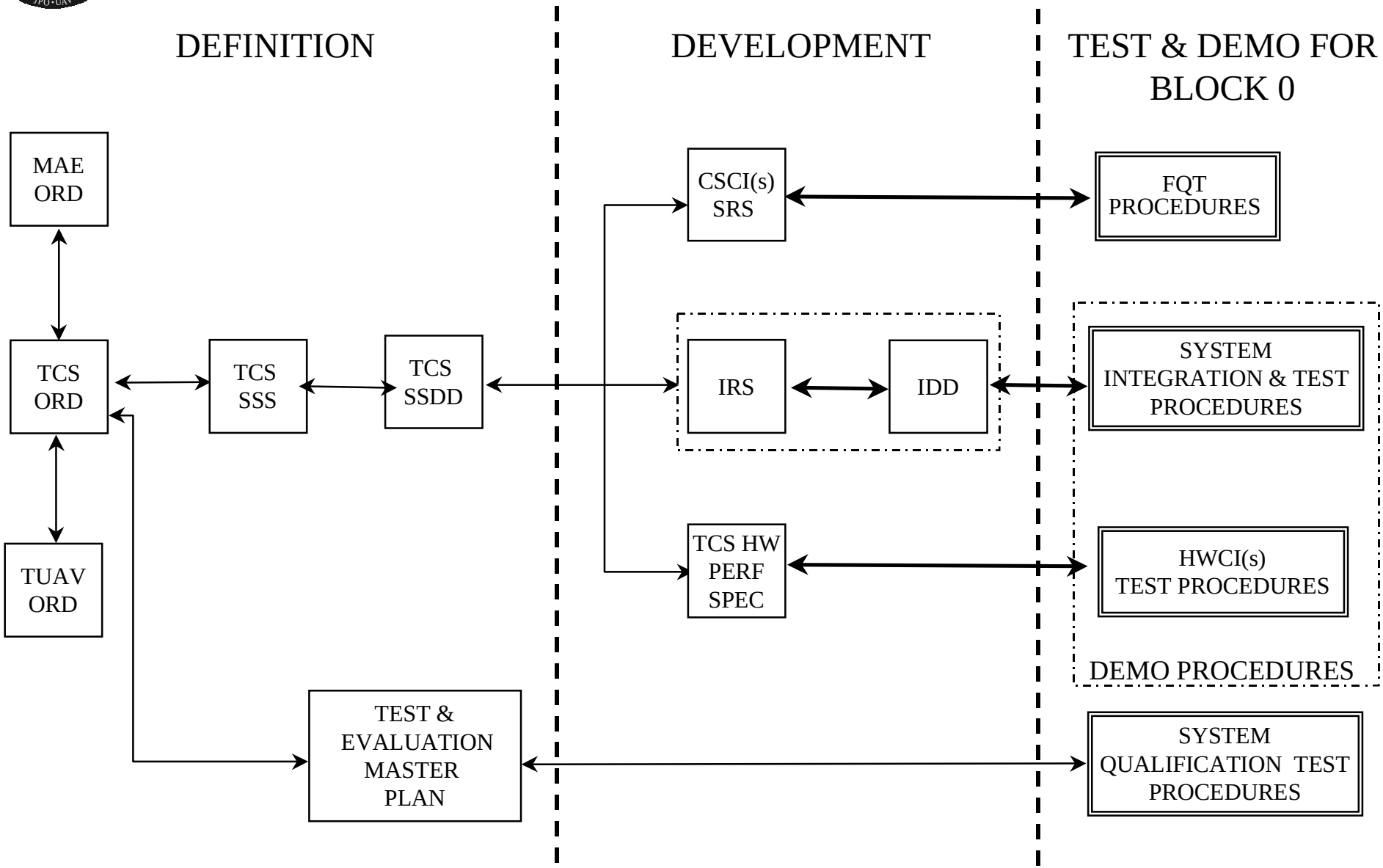
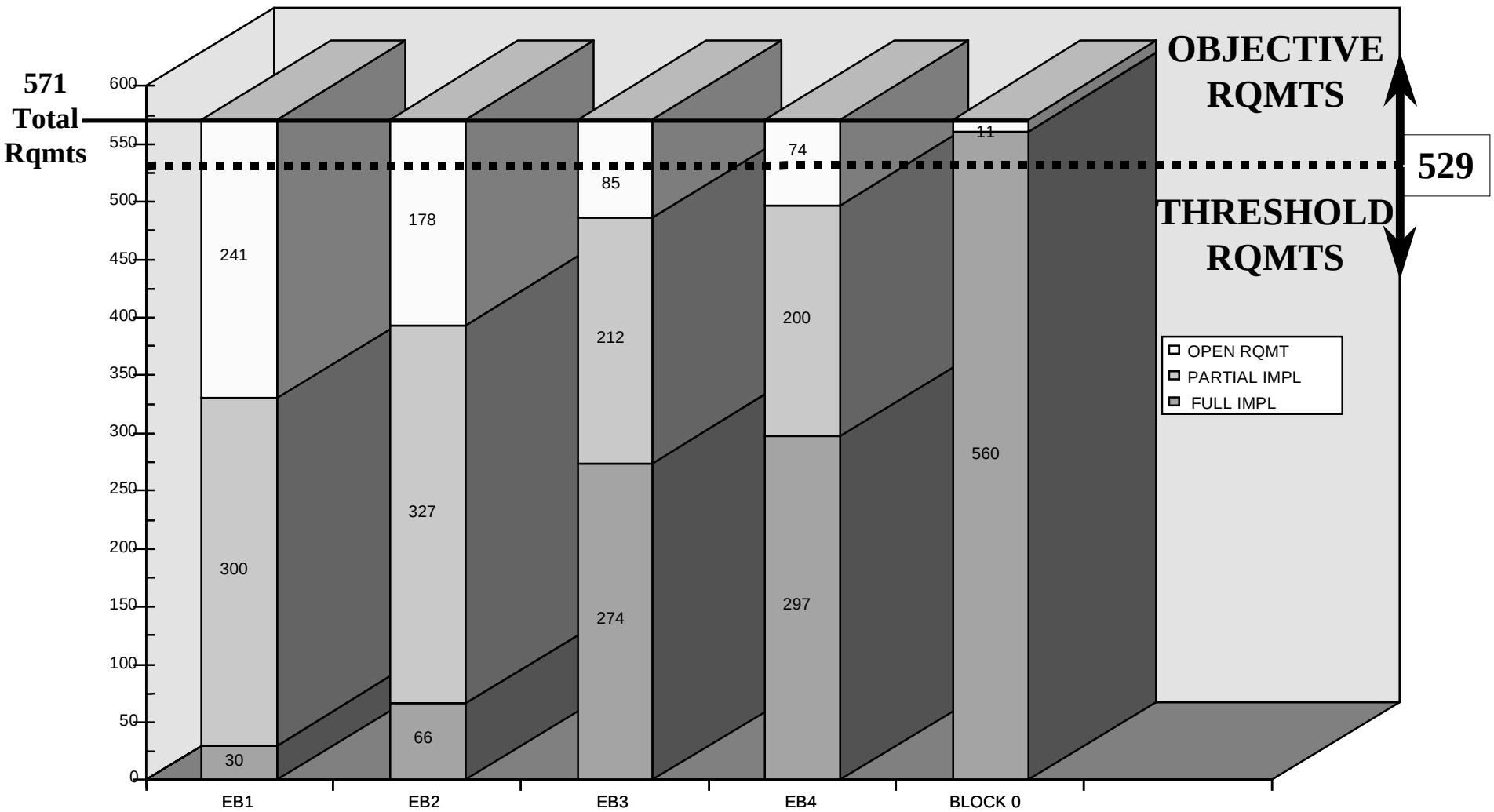
ORD IMPLEMENTATION BY ENGINEERING BUILD



TCS REQUIREMENTS DOCUMENTATION MODEL



TRACEABILITY MODEL



SSS RQMTS IMPLEMENTATION BY ENGINEERING BUILD