PHASES Initial Phase	STATUS Completed	COMMENTS
Documents Project Neede Statement (DNS)	Working on Now?	
- Project Needs Statement (PNS)	Working on Now?	
Concept Definition Phase	Completed	
Documents		
- Project Description Document (PDD)	Working on Now?	
 Operations Concept Document (OpsCon) 	Completed	
- Trade Studies Document (TSD)	Completed	Approval to build APT on SEA prototype
 Project Planning Document (PPD) 	Living doc, tracking Goddard/MC issues	
Milestones		
- Sign-off of the PDD	Working on Now?	
- Operations Concept Approval Review (OCAR)	Completed	
- Sign-off of the OCAR	Completed	Not that formal of a process, no signature
Entrance Gate		
- PNS delivery	Working on Now?	
Exit Gate		
- Web site established	Completed	
- Approval of OpsCon	Completed	
System Requirements Phase	Completed	
Documents		
 System Requirements Document (SRD) 	Completed, 3 documents	
- System Test Plan (STP)	Not Completed	
Milestones		
 User Requirements received 	Completed	
 Completion of Trade Studies 	Not Applicable for this phase	
 System Requirements Reviews 	Completed	
 Sign-off of System Requirements Document 	Completed	Not that formal of a process, no signature
Entrance Gate		
- OCAR held	Completed	
Exit Gate		
- Approval of SRD	Completed	
System Design Phase	On Going	
Documents		

 System Design Document (SDD) Interface Control Document (ICD) Integration Plan (IP) Milestones 	Completed Currently Being Developed Not Completed	External system interfaces
- Trade Study Completion	Not Applicable for this phase	
- System Design Review	Completed	
- Interface Control Document Technical Reviews	Not Completed	
- Test Plan Review	Not Completed	
Entrace Gate		
- System level requirements received	Completed	
Exit Gate		
- Approval of System Design Document	Completed	
- Approval of System Test Plan	Not Completed	
VTT Component Requirements Phase	On Going	
Documents		
 Component Requirements Document (CDR) 	On Going process, SEA prototype	Done through OPRs now, no formal document
- Test Plan (CTP)	Completed	No formal document
Milestones		
- User Requirements received	On Going process	VTT requirements team
- Completion of Trade Studies	Not applicable	
- Requirements analysis completed	On Going process	VTT requirements/development team
 Component Requirements Review Sign-off the Component Requirements Doc 	On Going process	VTT requirements team
Entrance Gate	On Going process	VTT requirements team, no formal sign
- System Requirements Document Approved	Completed, SEA prototype	
- System Design Document approved	Completed, SEA prototype	
Exit Gate	Completed, CEX prototype	
- CDR approval	On Going Process	
VIT Design & Implementation Dhase	On Coing	
VTT Design & Implementation Phase Documents	On Going	
- Component Design Document	Completed, SEA Prototype	
Milestones		
- Design Review	On Going Process, depends on new reqs	
- Code Review	Not Doing	
- Test Plan Review	Not Doing	Testing OPRs and new functionalities

Entrance Gate

- System Requirements Document
- System Design Document approved
- Sufficient Requirements

Exit Gate

- Delivery of Code for V&V
- Successful Completion of Code Reviews
- Approval of Component Test Plan

ACS ETC Component	Requirements Phase
Documents	

Completed Completed On Going Process, depends on new regs

On Going Process, depends on new regs Not Doing Not Doing

Completed

ACS ETC Component Requirements Phase	
Documents	
- Component Requirements Document (CDR)	Completed
- Test Plan (CTP)	Completed
Milestones	
- User Requirements received	Completed
 Completion of Trade Studies 	Not applicat
 Requirements analysis completed 	Completed
 Component Requirements Review 	Completed
- Sign-off the Component Requirements Doc	Completed
Entrance Gate	
- System Requirements Document Approved	Completed,
- System Design Document approved	Completed,

Exit Gate

- CDR approval

ACS ETC Design & Implementation Phase

Documents

- Component Design Document Milestones
- Design Review
- Code Review
- Test Plan Review

Entrance Gate

- System Requirements Document
- System Design Document approved
- Sufficient Requirements

Exit Gate

Not applicable Completed Completed Completed

Completed, SEA prototype Completed, SEA prototype

Completed

Completed

Completed

Completed

Completed

Completed

On Going Completed, SEA Prototype Completed, Pair Programming ETC requirements team

ETC requirements/development team ETC requirements team ETC requirements team, no formal sign

 Delivery of Code for V&V Successful Completion of Code Reviews Approval of Component Test Plan 	Not Completed Not Doing Completed		
NICMOS ETC Component Requirements Phas	·	Completed	
Documents		·	
- Component Requirements Document (CDR) - Test Plan (CTP)	Completed Not Completed		
Milestones			
- User Requirements received	Completed		ETC requirements team
- Completion of Trade Studies	Not applicable		
- Requirements analysis completed	Completed		ETC requirements/development team
- Component Requirements Review	Completed		ETC requirements team
- Sign-off the Component Requirements Doc Entrance Gate	Completed		ETC requirements team, no formal sign
- System Requirements Document Approved	Completed, SEA	v prototype	
- System Design Document approved Exit Gate	Completed, SEA	prototype	
- CDR approval	Completed		
NICMOS ETC Design & Implementation Phase)	TBD	Work to start in Summer 2001
Documents			
- Component Design Document <i>Milestones</i>	Completed, SEA	A Prototype	
- Design Review	Not Completed		
- Code Review	Not Completed		
- Test Plan Review	Not Completed		
Entrance Gate			
 System Requirements Document 	Completed		
 System Design Document approved 	Completed		
- Sufficient Requirements	Completed		
Exit Gate			
- Delivery of Code for V&V	Not Completed		
 Successful Completion of Code Reviews Approval of Component Test Plan 	Not Doing Not Completed		
STIS ETC Component Requirements Phase		Completed	

Documents - Component Requirements Document (CDR) - Test Plan (CTP) Milestones - User Requirements received - Completion of Trade Studies - Requirements analysis completed - Component Requirements Review - Sign-off the Component Requirements Doc Entrance Gate - System Requirements Document Approved - System Design Document approved Exit Gate - CDR approval	Completed Not Completed Completed Completed Completed Completed Completed, SEA prototype Completed, SEA prototype	ETC requirements team ETC requirements/development team ETC requirements team ETC requirements team, no formal sign
STIS ETC Design & Implementation Phase	TBD	Work to start in Summer 2001
Documents - Component Design Document Milestones - Design Review - Code Review - Test Plan Review Entrance Gate - System Requirements Document - System Design Document approved - Sufficient Requirements Exit Gate - Delivery of Code for V&V - Successful Completion of Code Reviews - Approval of Component Test Plan	Completed, SEA Prototype Not Completed Not Completed Completed Completed Completed Not Completed Not Completed Not Completed Not Completed	
COS ETC Component Requirements Phase Documents	TBD	Work to start Summer 2001
 Component Requirements Document (CDR) Test Plan (CTP) Milestones 	Not Completed Not Completed	
- User Requirements received	Not Completed	ETC requirements team

 Completion of Trade Studies Requirements analysis completed Component Requirements Review Sign-off the Component Requirements Doc Entrance Gate System Requirements Document Approved System Design Document approved Exit Gate CDR approval 	Not applicable Not completed Not Completed Not Completed Completed, SEA prototype Completed, SEA prototype	ETC requirements/development team ETC requirements team ETC requirements team, no formal sign
COS ETC Design & Implementation Phase	TBD	Work to start in Fall 2001
Documents - Component Design Document Milestones - Design Review - Code Review - Test Plan Review Entrance Gate - System Requirements Document - System Design Document approved - Sufficient Requirements Exit Gate - Delivery of Code for V&V - Successful Completion of Code Reviews - Approval of Component Test Plan	Completed, SEA Prototype Not Completed Not Completed Not Completed Completed Not Completed Not Completed Not Completed Not Completed Not Completed	
WF3 ETC Component Requirements Phase Documents - Component Requirements Document (CDR) - Test Plan (CTP) Milestones	TBD Not Completed Not Completed	Work to start Fall 2001
 User Requirements received Completion of Trade Studies Requirements analysis completed Component Requirements Review Sign-off the Component Requirements Doc Entrance Gate 	Not Completed Not applicable Not completed Not Completed Not Completed	ETC requirements team ETC requirements/development team ETC requirements team ETC requirements team, no formal sign

 System Requirements Document Approved System Design Document approved Exit Gate 	Completed, SEA Completed, SEA		
- CDR approval	Not Completed		
WF3 ETC Design & Implementation Phase		TBD	Work to start in Spring 2002
Documents			
- Component Design Document Milestones	Completed, SEA I	Prototype	
- Design Review	Not Completed		
- Code Review	Not Completed		
- Test Plan Review	Not Completed		
Entrance Gate			
 System Requirements Document 	Completed		
 System Design Document approved 	Completed		
 Sufficient Requirements 	Not Completed		
Exit Gate			
 Delivery of Code for V&V 	Not Completed		
 Successful Completion of Code Reviews 	Not Doing		
- Approval of Component Test Plan	Not Completed		
Bright Object Component Requirements Pha	se C	completed	
Documents		-	
- Component Requirements Document (CDR)	Completed		
- Test Plan (CTP)	Completed		No formal document
Milestones			
 User Requirements received 	Completed		Bright Object requirements team
 Completion of Trade Studies 	Not applicable		
 Requirements analysis completed 	Completed		Bright Object requirements/development team
 Component Requirements Review 	Completed		Bright Object requirements team
- Sign-off the Component Requirements Doc Entrance Gate	Completed		Bright Object requirements team, no formal sign
- System Requirements Document Approved	Completed		
 System Design Document approved Exit Gate 	Completed		
- CDR approval	Completed		

Bright Object Design & Implementation Phas Documents	e	On Going	
- Component Design Document	Completed		
Milestones	·		
- Design Review	Completed		
- Code Review	Not Doing		
- Test Plan Review	Not Doing		
Entrance Gate	C C		
- System Requirements Document	Completed		
- System Design Document approved	Completed		
- Sufficient Requirements	Completed		
Exit Gate	•		
- Delivery of Code for V&V	Not Completed		
- Successful Completion of Code Reviews	Not Doing		
- Approval of Component Test Plan	Not Doing		
OCM Component Requirements Phase		Completed	
Documents			
- Component Requirements Document (CDR)	Completed		
- Test Plan (CTP)	Completed		Developed test tool, no formal document
Milestones			
 User Requirements received 	Completed		
 Completion of Trade Studies 	Not applicable		
 Requirements analysis completed 	Completed		
 Component Requirements Review 	Completed		
- Sign-off the Component Requirements Doc	Completed		
Entrance Gate			
- System Requirements Document Approved	Completed		
- System Design Document approved	Completed		
Exit Gate			
- CDR approval	Completed		
OCM Design & Implementation Phase		On Going	
Documents		-	
- Component Design Document Milestones	Not Completed		
	a b b b b		

- Design Review

Completed

 Code Review Test Plan Review Entrance Gate System Requirements Document System Design Document approved Sufficient Requirements Exit Gate Delivery of Code for V&V Successful Completion of Code Reviews Approval of Component Test Plan 	Not Doing Not Completed Completed Completed Not Completed Not Doing Not Completed
SV2/VTT Component Requirements Phase	Completed
Documents - Component Requirements Document (CDR) - Test Plan (CTP) Milestones - User Requirements received - Completion of Trade Studies - Requirements analysis completed - Component Requirements Review - Sign-off the Component Requirements Doc Entrance Gate - System Requirements Document Approved - System Design Document approved Exit Gate - CDR approval	Completed Not Completed Completed Completed Completed Completed Completed Completed Completed Completed
SV2/VTT Design & Implementation Phase	On Going
Documents - Component Design Document Milestones	Completed, prototype built
- Design Review	Completed
- Code Review	Not Doing
- Test Plan Review	Not Doing
Entrance Gate	

System Requirements Document
 System Design Document approved

Completed

Completed

SV2 requirements team

SV2 requirements/development team SV2 requirements team SV2 requirements team, no formal sign 9 of 18

- Sufficient Requirements Exit Gate	Completed	
- Delivery of Code for V&V	Not Completed	
- Successful Completion of Code Reviews	Not Doing	
- Approval of Component Test Plan	Not Doing	
Approval of Component rest han	Not Doing	
Orbit Planner Component Requirements Phase	:	On Going
Documents		
 Component Requirements Document (CDR) 	Under developm	ent
- Test Plan (CTP)	Not Completed	
Milestones		
 User Requirements received 	Not Completed	
- Completion of Trade Studies	Completed, Quid	kTrans Stud
 Requirements analysis completed 	Not Completed	
 Component Requirements Review 	Not Completed	
- Sign-off the Component Requirements Doc	Not Completed	
Entrance Gate		
- System Requirements Document Approved	Not Completed	
- System Design Document approved	Not Completed	
Exit Gate		
- CDR approval	Not Completed	
Orbit Planner Design & Implementation Phase		On Going
Documents		•
- Component Design Document	Not Completed	
Milastanaa	•	

Orbit Planner requirements team Idies Orbit Planner requirements/development team Orbit Planner requirements team Orbit Planner requirements team, no formal sign

No formal document

Documents	
 Component Design Document 	Not Completed
Milestones	
- Design Review	Not Completed
- Code Review	Not Doing
- Test Plan Review	Not Doing
Entrance Gate	
 System Requirements Document 	Completed
 System Design Document approved 	Completed
- Sufficient Requirements	Not Completed
Exit Gate	
 Delivery of Code for V&V 	Not Completed
- Successful Completion of Code Reviews	Not Doing
 Approval of Component Test Plan 	Not Doing

Visit Planner Component Requirements Phase Documents	;	TBD
- Component Requirements Document (CDR)	Not Completed	
- Test Plan (CTP) Milestones	Not Completed	
- User Requirements received	Not Completed	
- Completion of Trade Studies	Not Applicable	
- Requirements analysis completed	Not Completed	
- Component Requirements Review	Not Completed	
- Sign-off the Component Requirements Doc Entrance Gate	Not Completed	
- System Requirements Document Approved	Not Completed	
- System Design Document approved	Not Completed	
- CDR approval	Not Completed	
Visit Planner Design & Implementation Phase		TBD
Documents		
 Component Design Document 	Not Completed	
Milestones		
- Design Review	Not Completed	
- Code Review	Not Doing	
- Test Plan Review	Not Doing	
Entrance Gate		
 System Requirements Document 	Completed	
 System Design Document approved 	Completed	
- Sufficient Requirements Exit Gate	Not Completed	
- Delivery of Code for V&V	Not Completed	
- Successful Completion of Code Reviews	Not Doing	
- Approval of Component Test Plan	Not Doing	
Phase 1 Component Requirements Phase Documents		Completed
 Component Requirements Document (CDR) Test Plan (CTP) 	Completed Not Completed	

Work to Start May 2001

No formal document

Visit Planner requirements team

Visit Planner requirements/development team Visit Planner requirements team Visit Planner requirements team, no formal sign

No formal document

Milestones		
- User Requirements received	Completed	Phase 1 requirements team
- Completion of Trade Studies	Not Applicable	•
- Requirements analysis completed	Completed	Phase 1 requirements/development team
- Component Requirements Review	Completed	Phase 1 requirements team
- Sign-off the Component Requirements Doc	Completed	Phase 1 requirements team, no formal sign
Entrance Gate	•	
- System Requirements Document Approved	Completed	
- System Design Document approved	Completed	
Exit Gate	•	
- CDR approval	Completed	
Phase 1 Design & Implementation Phase	TBD	Work to start Jan 2002
Documents		
- Component Design Document	Completed	
Milestones		
- Design Review	Not Completed	
- Code Review	Not Doing	
- Test Plan Review	Not Doing	
Entrance Gate		
 System Requirements Document 	Completed	
- System Design Document approved	Completed	
- Sufficient Requirements	Completed	
Exit Gate		
 Delivery of Code for V&V 	Not Completed	
- Successful Completion of Code Reviews	Not Doing	
- Approval of Component Test Plan	Not Doing	
Help Component Requirements Phase	On Going	
Documents		
 Component Requirements Document (CDR) 	Under Development	
- Test Plan (CTP)	Not Completed	No formal document
Milestones		
 User Requirements received 	Not Completed	Help requirements team
- Completion of Trade Studies	Not Applicable	
 Requirements analysis completed 	Not Completed	Help requirements/development team
 Component Requirements Review 	Not Completed	Help requirements team

- Sign-off the Component Requirements Doc Entrance Gate - System Requirements Document Approved	Not Completed		Help requirements team, no formal sign
- System Design Document approved Exit Gate	Completed		
- CDR approval	Not Completed		
Help Design & Implementation Phase Documents		TBD	Resource Issue, may not do
- Component Design Document <i>Milestones</i>	Not Completed		
- Design Review	Not Completed		
- Code Review	Not Doing		
- Test Plan Review	Not Doing		
Entrance Gate			
 System Requirements Document 	Completed		
 System Design Document approved 	Completed		
- Sufficient Requirements	Completed		
Exit Gate			
 Delivery of Code for V&V 	Not Completed		
- Successful Completion of Code Reviews	Not Doing		
- Approval of Component Test Plan	Not Doing		
Submission Component Requirements Phase Documents		Completed	
- Component Requirements Document (CDR)	Completed		
- Test Plan (CTP)	Not Completed		No formal document
Milestones	Not Completed		
- User Requirements received	Completed		
- Completion of Trade Studies	Not Applicable		
- Requirements analysis completed	Completed		
- Component Requirements Review	Completed		
- Sign-off the Component Requirements Doc	Completed		
Entrance Gate	-		
- System Requirements Document Approved	Completed		
- System Design Document approved Exit Gate	Completed		

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- CDR approval	Completed		
Submission Design & Implementation Phase		TBD	Work to start in Spring 2002
Documents			
 Component Design Document 	Not Completed		
Milestones			
- Design Review	Not Completed		
- Code Review	Not Doing		
- Test Plan Review	Not Doing		
Entrance Gate			
- System Requirements Document	Completed		
- System Design Document approved	Completed		
- Sufficient Requirements	Completed		
Exit Gate	·		
- Delivery of Code for V&V	Not Completed		
- Successful Completion of Code Reviews	Not Doing		
- Approval of Component Test Plan	Not Doing		
Moving Target Component Requirements Pha	as	TBD	Work to start in May 2001
Documents			,
- Component Requirements Document (CDR)	Not Completed		
- Test Plan (CTP)	Not Completed		No formal document
Milestones	·		
- User Requirements received	Not Completed		
- Completion of Trade Studies	Not Applicable		
- Requirements analysis completed	Not Completed		
- Component Requirements Review	Not Completed		
- Sign-off the Component Requirements Doc	Not Completed		
Entrance Gate			
- System Requirements Document Approved	Completed		
- System Design Document approved	Completed		
Exit Gate	Completed		
- CDR approval	Not Completed		
	Not Completed		
Moving Target Design & Implementation Phase Documents	S€	TBD	Resource Issue, May not do
- Component Design Document	Not Completed		

- Component Design Document

Not Completed

Milestones			
- Design Review	Not Completed		
- Code Review	Not Doing		
- Test Plan Review	Not Doing		
Entrance Gate			
- System Requirements Document	Completed		
- System Design Document approved	Completed		
- Sufficient Requirements	Completed		
Exit Gate	-		
- Delivery of Code for V&V	Not Completed		
- Successful Completion of Code Reviews	Not Doing		
- Approval of Component Test Plan	Not Doing		
Batch Check Component Requirements Phas	se	TBD	Work to start in Fall 2001
Documents			
- Component Requirements Document (CDR)	Not Completed		
- Test Plan (CTP)	Not Completed		No formal document
Milestones			
- User Requirements received	Not Completed		
- Completion of Trade Studies	Not Applicable		
- Requirements analysis completed	Not Completed		
 Component Requirements Review 	Not Completed		
- Sign-off the Component Requirements Doc	Not Completed		
Entrance Gate	-		
- System Requirements Document Approved	Completed		
- System Design Document approved	Completed		
Exit Gate	•		
- CDR approval	Not Completed		
Batch Check Design & Implementation Phas	e	TBD	Resource Issue, May not do
Documents			
- Component Design Document	Not Completed		
Milestones	-		
- Design Review	Not Completed		
- Code Review	Not Doing		
- Test Plan Review	Not Doing		
Entrance Gate	-		

 System Requirements Document System Design Document approved Sufficient Requirements <i>Exit Gate</i> Delivery of Code for V&V Successful Completion of Code Reviews Approval of Component Test Plan 	Completed Completed Completed Not Completed Not Doing Not Doing		
Verification / Integration Phase - Jan 2001		Completed	
Documents	Quantatat		
- Test Results Document (TRD) Milestones	Completed		No formal document, turned into OPRs
- Test Readiness Reviews	Completed		
- Review of test results	Completed		
- Operations Readiness Review	Completed		
Entrance Gate	_		
- Software delivered to test team	Completed		
Exit Gate - Approval of Operational Readiness	Completed		
- Approval of Operational Readiness	Completed		
Verification / Integration Phase - April 2001		On Going	
Documents			
- Test Results Document (TRD)	Not Completed		No formal document, turned into OPRs
Milestones			
 Test Readiness Reviews Review of test results 	Not Completed Not Completed		
- Operations Readiness Review	Not Completed		
Entrance Gate	Not Completed		
- Software delivered to test team	Completed		
Exit Gate			
- Approval of Operational Readiness	Not Completed		
Verification / Integration Phase - June 2001 Documents		TBD	
- Test Results Document (TRD)			
	Not Completed		No formal document, turned into OPRs

- Test Readiness Reviews	Not Completed		
- Review of test results	Not Completed		
 Operations Readiness Review 	Not Completed		
Entrance Gate			
 Software delivered to test team 	Not Completed		
Exit Gate			
- Approval of Operational Readiness	Not Completed		
/erification / Integration Phase - Jan 2002		TBD	
Documents			
 Test Results Document (TRD) 	Not Completed		No formal document, turned into OPRs
Milestones			
- Test Readiness Reviews	Not Completed		
- Review of test results	Not Completed		
 Operations Readiness Review 	Not Completed		
Entrance Gate			
 Software delivered to test team 	Not Completed		
Exit Gate			
 Approval of Operational Readiness 	Not Completed		
Verification / Integration Phase - June 2002		TBD	
Documents			
- Test Results Document (TRD)	Not Completed		No formal document, turned into OPRs
Milestones	not completed		
- Test Readiness Reviews	Not Completed		
- Review of test results	Not Completed		
- Operations Readiness Review	Not Completed		
Entrance Gate			
- Software delivered to test team	Not Completed		
Exit Gate			
- Approval of Operational Readiness	Not Completed		
/erification / Integration Phase - Jan 2003		TBD	
Documents			
- Test Results Document (TRD)	Not Completed		No formal document, turned into OPRs
Milestones			

- Test Readiness Reviews

Not Completed

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 Review of test results Operations Readiness Review 	Not Completed Not Completed	
Entrance Gate - Software delivered to test team	Not Completed	
Exit Gate - Approval of Operational Readiness	Not Completed	
Operations Phase Documents	On Going	We are operational now, just not fully functional
 Lessons Learned Document Operations/User Manuals 	Living Document Living Document	Updated for each release