WBS			TASK NAME
6.01	**C. Langley**		**Project Management**
	6.01.01		Management/Subsystem Engineering
	6.01.06		Project Book, Manuals and Documentation
	6.01.10		Office Equipment & Supplies
	6.01.15		Drafting and Lab Services
	6.01.20		Advisory Comm Support
6.02	**Jackson/Butler**		**System Integration and Testing**
	6.02.01		Management/Subsystem Engineering
		6.02.01.05	Block Diagrams for Systems & Subsystems
		6.02.01.10	Engineering Performance Specifications
		6.02.01.15	Basic Engineering Interface Specifications
	6.02.05		Test and Lab Equipment
		6.02.05.05	Production Test and Lab Equipment, FO
		6.02.05.10	Production Test and Lab Equipment, FE
		6.02.05.15	Production Test and Lab Equipment, LO
		6.02.05.20	Test and Lab Equipment General
	6.02.10		Power Supply System
		6.02.10.05	Central Electronics Room
		6.02.10.10	Master LO Power Supply
		6.02.10.15	Antenna Vertex Room Power Supply
		6.02.10.20	Antenna Pedestal Room Power Supply
	6.02.15		Site RFI Characterization & Suppression
		6.02.15.05	Facilities Development
		6.02.15.09	Limits for RFI Emmission Levels
		6.02.15.10	Acceptance Test Development
		6.02.15.15	RFI/EMC Analysis of Electronics & Computers
		6.02.15.20	Site RFI Mitigation
	6.02.16		External RFI & System Immunity
		6.02.16.05	Measurement of PFD/BW Levels of RFI at Each Band
		6.02.16.10	EVLA Antenna Sidelobe Gain Patterns 2-120 Degrees
		6.02.16.15	Distribution of Gains, SNRs & Headroom of existing Rcvrs
		6.02.16.20	Spec's for Distribution of System/Subsystem Gains, SNRs
		6.02.16.25	Spec's/Development of RFI Filters for Rcvrs
		6.02.16.30	Spec's/Development of RFI Filters in IF System
	6.02.20		Scientific Support
		6.02.20.05	Development of Scientific Performance Specifications
		6.02.20.10	Spec's for Minimum Limits for Angular Separation from Satellites
	6.02.25		Modules, Bins and Racks
	6.02.30		Transition Planning
6.03	**G. Stanzione**		**Civil Construction**
	6.03.01		Management/Subsystem Engineering
	6.03.05		FO Cable, Trench, Install
		6.03.05.05	FO Cable, Trench and Install (200 kft)
		6.03.05.10	FO Cable (550kft)
	6.03.10		New Correlator Room
		6.03.10.05	New Correlator Shielded Chamber
		6.03.10.10	Remodeling and Demolition
		6.03.10.15	IPG Shielded Chamber
		6.03.10.20	Power Distribution
		6.03.10.25	Install New Correlator
	6.03.15		Power Distribution
	6.03.20		HVAC and Fire Suppression

WBS			TASK NAME
6.04	**L. Serna**		**Antennas**
	6.04.01		Management/Subsystem Engineering
	6.04.02		Precision Machining
	6.04.05		Feed Cone and Towers
	6.04.10		Antenna Structural Modifications
	6.04.15		Antenna Electrical & HVAC Service
		6.04.15.05	Antenna Electrical
		6.04.15.10	Antenna HVAC
	6.04.20		Feed Moisture Control and Pointing Improvements
6.05	**C. Kutz**		**Front End Systems**
	6.05.01		Management/Subsystem Engineering
	6.05.05		Card Cage, Controllers
		6.05.05.01	Front End Card Cage
		6.05.05.02	FE Control Modules
		6.05.05.03	F-Rack
	6.05.RX		Receivers
		6.05.05.05	L Band
		6.05.05.10	S Band
		6.05.05.15	C Band
		6.05.05.20	X Band
		6.05.05.25	Ku Band
		6.05.05.30	K Band
		6.05.05.32	K Band Completion (7 units)
		6.05.05.35	Ka Band
		6.05.05.40	Q Band
		6.05.05.45	Q Band Completion (5 units)
	6.05.10		Feeds
		6.05.10.05	L Band
		6.05.10.10	S Band
		6.05.10.15	C Band
		6.05.10.20	X Band
		6.05.10.25	Ku Band
		6.05.10.32	K Band
		6.05.10.30	K Band Completion (7 units)
		6.05.10.35	Ka Band
		6.05.10.40	Q Band
		6.05.10.45	Q Band Completion (5 units)
	6.05.30		Cryogenics
		6.05.30.05	Vacuum Pump and Manifolds
		6.05.30.10	Compressors & He Lines
		6.05.30.15	Refrigerators
6.06	**T. Cotter**		**Local Oscillator System**
	6.06.01		Management/Subsystem Engineering
	6.06.05		Master LO System
		6.06.05.05	H Maser Frequency Standard (&Rb)
		6.06.05.10	PPS Generator & Distributor
		6.06.05.25	LO Ref Generator
		6.06.05.30	LO ref Distributor - Control Bldg
		6.06.05.35	LO Driver
		6.06.05.40	512 MHz Offset Generator
	6.06.07		Central Antenna System
		6.06.07.05	Round Trip Phase Receiver
	6.06.10		12-20 GHz Synthesizer
	6.06.15		10.8-14.8 GHz Synthesizer
	6.06.20		Antenna Reference System
		6.06.20.05	Antenna LO Reference Generator

WBS			TASK NAME
6.07	**D. Gerrard**		**Fiber Optic System**
	6.07.01		Management/Subsystem Engineering
	6.07.05		IF Fiber System
		6.07.05.05	Formatter
		6.07.05.10	Deformatter
		6.07.05.15	Laser Transmitter
	6.07.10		Infrastructure and Antenna Outfitting
		6.07.10.05	Fiber Infrastructure
		6.07.10.10	Antennas
	6.07.15		Samplers & MCB
		6.07.15.05	Monitor and Control
		6.07.15.10	2-4 GHz Sampler
		6.07.15.15	1 GHz Sampler
	6.07.20		LO Fiber System
		6.07.20.10	LO/Reference
6.08	**T. Cotter**		**Intermediate Frequency System**
	6.08.01		Management/Subsystem Engineering
	6.08.05		Switches and RF Cabling
	6.08.10		4/P & L/S/C-Band Converters
	6.08.15		U/X Converter Module
	6.08.20		IF Down Converter
6.09	**B. Carlson/M. Revnell**		**Correlator**
	6.09.01		Management/Subsystem Engineering
	6.09.05		NRAO Correlator Interface
	6.09.10		Pre-project Tooling/Setup
	6.09.15		Station Board H/W Development
		6.09.15.02	Station Board
		6.09.15.05	FIR Filter Chip Development
		6.09.15.10	Course Delay Module
	6.09.20		Sub-band Distribution Backplane
	6.09.25		Station Data Fanout Board
	6.06.30		Baseline Entry Backplane
	6.09.35		Baseline Board H/W Development
		6.09.35.02	Baseline Board
		6.09.35.05	Correlator Chip Development
	6.09.40		Phasing Board
	6.09.45		Phasing Board Entry Backplane H/W Deployment
	6.09.50		TIMECODE Generator Box H/W Deployment
	6.09.55		Real-time S/W Development
	6.09.60		System Design (Racks, Main Pwr, Cabling, Computer)
	6.09.65		Production Model Test/Burn-in
	6.09.70		System Integration & Test (Pentecton)
	6.09.75		System Integration & Test (VLA off-line)
	6.09.80		Online Debug, Test (VLA on-line)
6.10	**B. Butler**		**Monitor & Control System**
	6.10.01		Management/Subsystem Engineering
	6.10.05		M&C Electronic Hardware
		6.10.05.05	Physical Interface
		6.10.05.10	Utility Module
	6.10.10		M&C Network, Hardware & Software
	6.10.15		M&C Computing Systems Hrdwre & Sftwre
	6.10.20		M&C EVLA Software
		6.10.20.05	Stabilization of the VLA
		6.10.20.10	Requirements
		6.10.20.15	High Level Software Architecture & Design
		6.10.20.20	Test & Devel Support, Enhanced Antennas
		6.10.20.25	Mid Level Analysis & Design
		6.10.20.30	Test & Devel Support, Correlator
		6.10.20.35	Detailed Design & Coding
	6.10.25		Switch Interface Module
	6.10.30		M&C Transition Hardware

WBS		TASK NAME
6.11	**B. Butler/J. Robnett**	**Data Management and Computing**
6.11.01		Management/Subsystem Engineering
6.11.05		Proposal Preparation and Submission
	6.11.05.05	Requirements
	6.11.05.10	Proposal submission toolkit
6.11.10		Observation Preparation Software
	6.11.10.05	Requirements
	6.11.10.10	Observation description toolkit
	6.11.10.15	Observation planning toolkit
6.11.15		Observation Scheduling
	6.11.15.05	Requirements
	6.11.15.10	Observation scheduling toolkit
	6.11.15.15	Observing toolkit
	6.11.15.20	EVLA-specific Observing toolkit
6.11.20		Image Pipeline
	6.11.20.05	Requirements
	6.11.20.10	Pipeline toolkit
	6.11.20.15	Pipeline heuristics
	6.11.20.20	EVLA-specific pipeline heuristics
6.11.25		Data Archive
	6.11.25.05	Requirements
	6.11.25.10	Archive toolkit
6.11.30		Data Post Processing
	6.11.30.05	Requirements
	6.11.30.10	CASA package (formerly EVLA AIPS++)
6.11.35		Networking
	6.11.35.05	Upgrade Servers
	6.11.35.10	Replace copper by optical fiber
	6.11.35.15	Upgrade Clients
	6.11.35.20	Update VLA/AOC Datalink
	6.11.35.25	Update Non-Operations VLA Network
	6.11.35.30	VOIP Antenna Phones
6.11.40		Computing Hardware
	6.11.40.05	Development hardware
	6.11.40.10	Archive hardware
	6.11.40.15	Data Reduction Hardware
6.11.45		Correlator Backend Network
	6.1145.05	Correlator Backend Network
6.12		**Education and Public Outreach**
6.12.05		EVLA Contribution to new Visitor Center
6.13	**C. Langley**	**Project Contingency**
6.13.05		Unallocated Funds