EXHIBIT E

MATERIAL INSPECTION AND RECEIVING REPORT

Form Approved
OMB No. 0704-0248

The public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0248). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.
SEND THIS FORM IN ACCORDANCE WITH THE INSTRUCTIONS CONTAINED IN THE DFARS, APPENDIX F-401.

1. PROCUREMENT INSTRUMENT IDENTIFICATION (CONTRACT) NO.	ORDER NO.	6. INVOICE NO./DATE	7. PAGE	OF	8. ACCEPTANCE POINT
N62306-03-M-B014		/2009JUN24E	1	6	D

2. SHIPMENT NO.	3. DATE SHIPPED	4. B/L	5. DISCOUNT TERMS
0001Z	2009JUN11	TCN	NET 30 DAYS

9. PRIME CONTRACTOR CODE 1CV82
THE REGENTS OF UNIVERSITY OF CALIFORNIA
WILLIAM F. CLARK, OFFICE OF SPONSORED PROJECTS
1156 HIGH STREET
SANTA CRUZ, CA 95064

10. ADMINISTERED BY CODE N63374
OFFICE OF NAVAL RESEARCH
SEATTLE REGIONAL OFFICE 1107 NE
45TH STREET, SUITE 350
SEATTLE. WA 98105-4631

11. SHIPPED FROM *(If other than 9)* CODE FOB: D
"SEE BLOCK 9"

12. PAYMENT WILL BE MADE BY CODE N68566
DFAS-DAO-CL
130 WEST AVENUE SUITE A
PENSACOLA, FL 32508-5120

13. SHIPPED TO CODE 0000SS
SEE SCHEDULE

MS

14. MARKED FOR CODE

15. ITEM NO.	16. STOCK/PART NO. DESCRIPTION *(Indicate number of shipping containers - type of container - container number.)*	17. QUANTITY SHIP/REC'D*	18. UNIT	19. UNIT PRICE	20. AMOUNT
0001	AUTOMATED PLANET FINDER FACILITY TELESCOPE FFP-2.4 METER, EOST, IN ACCORDANCE WITH THE MINIMUM TELESCOPE TECHNICAL REQUIREMENTS AS SET FORTH IN TEST AND EVALUATION RESULTS FOR ITEM NO. 0001 ARE ATTACHED	1.00	LOT	$4,064,262	4064262

21. CONTRACT QUALITY ASSURANCE

a. ORIGIN
☐ CQA ☐ ACCEPTANCE of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents.

DATE | SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
TYPED NAME:
TITLE:
MAILING ADDRESS:
COMMERCIAL TELEPHONE NUMBER:

b. DESTINATION
☐ CQA ☑ ACCEPTANCE of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents.

6/11/09 | SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
TYPED NAME: DR. KEN JOHNSTON
TITLE: U.S. NAVY PROGRAM MANAGE
MAILING ADDRESS: U.S. NAVAL OBSERVATORY
3450 MASSACHUSETTS AVE., NW
WASHINGTON, D.C. 203932-5420
COMMERCIAL TELEPHONE NUMBER: (202) 762-1513

22. RECEIVER'S USE
Quantities shown in column 17 were received in apparent good condition except as noted.

6/11/09 | SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
DATE RECEIVED
TYPED NAME: DR. KEN JOHNSTON
TITLE: U.S. NAVY PROGRAM MANAGE
MAILING ADDRESS: U.S. NAVAL OBSERVATORY
3450 MASSACHUSETTS AVE, NW
WASHINGTON, D.C. 203932-5420
COMMERCIAL TELEPHONE NUMBER: (202) 762-1513

** If quantity received by the Government is the same as quantity shipped, indicate by (X) mark; if different, enter actual quantity received below quantity shipped and encircle.*

23. CONTRACTOR USE ONLY

DD FORM 250, AUG 2000 PREVIOUS EDITION IS OBSOLETE.

Automated Planet Finding Facility Telescope ("APF")

Lick Observatory, Mt. Hamilton, CA

U.S. Naval Observatory Inspection and Acceptance (Destination) Test Report

Contract N62306-03-M-B014

June 11, 2009

Purpose

The purpose of this plan is to demonstrate compliance with the requirements of Addenda to FAR Clause 52.212-4, Contract Terms and conditions-Commercial Item, Section 3 INSPECTION AND ACCEPTANCE (DESTINATION), Automated Planet Finding Facility Telescope Contract N62306-03-M-B014 issued by the Naval Oceanographic Office Contracts Branch on behalf of the United States Naval Observatory ("USNO) .

System under test: Automated Planet Finding Facility Telescope ("APF Telescope")

Test date: June 11, 2009

INSPECTION CERTIFICATION:

CONTRACTOR:	University of California, Santa Cruz ("UCSC")
Name:	Steve Vogt, PhD
Title:	Project Scientist
Signature:	Steven A. Vogt
Date:	6/11/09

GOVERNMENT:	U.S. Naval Observatory ("USNO")
Name:	Dr. Kenneth Johnston
Title:	U.S. Navy Program Manager
Signature:	K J Johnston
Date:	6/11/09

DESCRIPTION AND REQUIREMENTS for the AUTOMATED PLANET FINDER FACILITY

1.0 GENERAL DESCRIPTION

APF will consist of a 2-meter-class, altitude-azimuth automated telescope and enclosure located near the 20-inch Astrograph Site atop Mt. Hamilton, California. It will have its own dedicated spectrometer optimized for planet finding situated at the Nasmyth focus. The telescope, enclosure and its associated instrumentation will be called the Automated Planet Finder or APF facility. USNO contract is for the telescope and enclosure. Instrumentation will be independently funded by NASA and built by UCO/Lick Observatory and is not a part of this Site Acceptance Test.

The facility will be dedicated to the discovery of extra-solar planets via repeated, high-precision (<2 meters per second) radial velocity measurements of a large sample of nearby stars. To carry out this research with maximum efficiency, the facility is designed to function autonomously after the spectrometer is completed, commissioned and integrated with the telescope and enclosure. The telescope design must therefore include software and hardware hooks to allow integration of the telescope's automation and guiding package with the enclosure.

2.0 ENVIRONMENTAL REQUIREMENTS

The telescope will be designed to operate within the environment specified below. The telescope will normally be protected in its dome/enclosure when weather conditions become adverse. All mechanical and electrical components must be rated to operate and survive the environmental conditions listed below.

Temperature Range to Meet Image Quality Specification	-6 °C to + 30 °C
Max. Operating Temperatures	-15 °C to + 35 °C
Storage Temperature	-20 °C to + 40 °C
Altitude	Sea Level to 5,000 ft.
Relative Humidity	5% to 95%
Wind Speed*	Up to 50 mph outside the dome.

* Wind speed inside the dome is assumed to be 50% of the exterior wind speed

All tests are performed under the environmental conditions present at the time.

3.0 ACCEPTANCE TESTS

Ref.	Feature	Requirement	Measured Value	Pass/Fail
	Telescope		*Telescope*	
2.1	Mount type	altitude-azimuth with two Nasmyth foci	Yes	PASS
2.1	Primary mirror diameter	2-m nominal	2.4 meter	PASS
2.1	Un-vignetted field of View	at least 2 arcminutes diameter	2 arcminutes dia.	PASS
2.1	Final focal ratio of telescope	f/15 or faster	F/15	PASS
2.2	Optical performance	80% encircled energy within 0.50 arcsecond diameter; 90% encircled energy within a 1.0 arcsecond diameter (over 0-70 degree zenith angle)	80% ee in 0.3 arcsec diam 90% ee in 0.5 arcsec diam	PASS PASS
2.1	Central Obscuration	total projected area < 10 % of the primary mirror area	0.037	PASS
3.2	Instrument Capacity	850 kg at each of the Nasmyth foci	Yes	PASS
	Guider		*Guider*	
2.3	CCD/TV FOV	1 - 2 arcminutes diameter (as needed for acquisition and guiding)	3 arc min. diam	PASS
2.3	CCD/TV limiting stellar magnitude	at least V=15.0 or fainter	V=17.1 with 4% pellicle	PASS
	Tracking and Pointing		*Tracking and Pointing*	
2.9	Absolute pointing accuracy	<10 arcseconds (over 0-70 degree zenith angle)	2.2 arcsec rms to 15° el	PASS
2.1	Open-loop tracking (for 10 minutes)	0.5 arcseconds (over 0-70 degree zenith angle)	< 2 arcsecs	<0.5TT
2.1	Open-loop tracking (for 60 minutes)	2.5 arcseconds (over 0-70 degree zenith angle)	TBD	TBD
2.1	Closed-loop tracking	0.20 arcseconds (over 0-70 degree zenith angle)	TBD	TBD

Ref.	Feature	Requirement	Measured Value/ Complies	Pass/Fail
	Primary Mirror Details		*Primary Mirror Details*	
	Focal ratio of primary mirror	nominally f/3 or faster	f/1.5	PASS
2.6	Coating	aluminum	Yes	PASS
	Primary Cover	remotely deployable with full coverage	Yes	PASS
	Substrate material	Zerodur, ULE or equivalent zero CTE glass	Astrosital	PASS
	Secondary Mirror Details		*Secondary Mirror Details*	
2.6	Coating	protected silver (reflectance > 96% from 0.48 to 1.2 microns)	Yes	PASS
4.6	Focus travel	at least 2.0 mm	5 mm	PASS
4.6	Focus resolution	5 microns	Yes	PASS
4.6	Alignment adjustments	manually adjustable tip/tilt and piston for initial alignment	Yes	PASS
	Substrate material	Zerodur or ULE or equivalent zero CTE glass	ULE	PASS
	Tertiary Mirror Details		*Tertiary Mirror Details*	
2.6	Coating	protected silver (reflectance > 96% from 0.48 to 1.2 microns)	Yes	RECOAT
2.5	Deployment between foci	software control to rotate between both Nasmyth foci	Yes	PASS
2.5	Reconfiguration time	less than 90 seconds	60 sec.	PASS
	Substrate material	Zerodur or ULE or equivalent zero CTE glass	ULE	PASS
	Other Deliverables			
3.17	Mirror support handling fixture	Mirror support designed to fit into coating tank to commonly accepted standards for high vacuum systems.		PASS
5.11	Weather Station	Weather station that provides temperature, pressure, humidity, wind speed, direction and precipitation detection	Computer data demonstrated	PASS

	Name	Signature	Date
Requirements of Contract N62306-03-M-B014 Satisfied	Kenneth J. Johnston	[signature]	6/11/09

A.J.V.