

No requisition is available for the record you have requested.
609637

Purchase Order # 270204N

Vendor: EARTH SATELLITE CORPORATION

Order Date: 08/09/02

Due Date: 08/09/02

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	<u>DESCRIPTION</u>
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	
<u>1</u>	1	0	0		FEDERAL EXPRESS	\$27,050.00	SERVICE PURCHASE ORDER

Total \$27,050.00

NOTES: (none)

FOOTNOTES: P8 JHM1 P12

50% - 01402.471
50% 01402.861



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

8/8/2002

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

✓ 609637

SUGGESTED OR PREVIOUS SUPPLIER

Earth Satellite Corporation

CITY, STATE

Rockville, Maryland

DELIVER TO

Marius Necsoiu/B. 189

SHIP VIA

PURCHASING SELECTED SUPPLIER

ATTN:

Richard Borda

F.O.B.

SUPPLIER CODE

ATTN

PHONE

301-231-0660

FAX

301-231-5020

TERMS

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	(see attached)		Ikonos pan sharpened mosaic and	20	01402	471	50		
			GeoPic prints (see attached for	20	01402	861	50		\$ 27,050/00
			details) and quote)						
			"Quality affecting"						
			1. Examination of products upon receipt						
			2. CNWRA surveillance at Earth Sat facilities in Rockville, MD						
			3. Internal review of "ISO and Quality Statement for Earth Sat."						
			4. SWRI must be billed for this work by Aug 30, 2002						

INTERNAL NOTES TO BUYER

Send req. to Roseanne Ard/B. 189 RUSH!

SPECIAL INSTRUCTIONS TO SUPPLIER

TOTAL

1. Government Project? ☒ YES ☐ NO

IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)

a ☐ G-1 CONSUMABLEb ☐ G-2 DELIVERABLEc ☒ G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

☐ YES☐ NO2. QUALITY ASSURANCE? ☒ YES ☐ NOa ASL REQUIRED? ☒ YES ☐ NO

b Q A CODES:

Q20

c INSPECTION CRITERIA

(see above)

d QA APPROVAL (IF REQUIRED)

DATE

3. SOURCING NOTES

IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? ☒ YES ☐ NO

IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.

REQUESTOR'S SIGNATURE

EXT. NO.

L. McKague

5183

DEPT. / DIVISION APPROVAL

DATE

B. Sagar

8/8/2002

ADMIN. APPROVAL

DATE

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?

☒ YES ☐ NO

b IS THE REPAIR ON OR OFF CAMPUS?

☒ ON ☐ OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. _____

CONTRACT REVIEW APPROVAL

DATE

BUYER SIGNATURE

DATE

SEE INSTRUCTIONS ON REVERSE SIDE

JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

DATE: August 8, 2002
TO: Purchasing Department
FROM: H. Lawrence McKague
SUBJECT: Sole Source Justification
Purchase Requisition No: 609637
Project No: 20.01402.471 and 20.01402.861
Recommended Source: Earth Sat

This form must be completed and returned to Purchasing before your Purchase Requisition can be awarded.

1. Is the recommended source the only source you considered?

(X) Yes () No

a. If you checked yes, why didn't you consider any other sources?

We need the work done in 30 days. Earth Sat can do it, and they are recognized for a high quality of work.

b. If you checked no, what other sources did you consider?

How did you determine that the recommended source was the only source?
(include any market survey conducted, as well as review of technical journals and other sources such as the Thomas Register.)

Why were these other sources ruled out for this purchase?

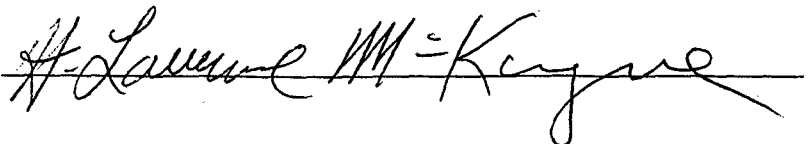
2. What characteristics does this item/company have that are necessary, and that no other item/company has?

Earth Sat is an international leader in the development and application of remote sensing and geographical technologies. They can do the work in the time frame we require.

3. Remarks:

I certify that this justification is accurate and complete to the best of my knowledge.

Purchase Requisition Requester:





EARTH SATELLITE CORPORATION
6011 EXECUTIVE BOULEVARD
SUITE 400
ROCKVILLE, MD 20852

PH: (301) 231-0660
FAX: (301) 231-5020

From: RICHARD BORDA

To: Dr. Larry McKague, Dr. Marius Necsoiu
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166

Phone: 210-522-5183, 210-522-5541

Mosaic from client provided orthorectified Ikonos imagery

05-Aug-02

ITEM	DESCRIPTION	QTY	PRICE	TOTAL PRICE
	Ikonos pan sharpened mosaic			
1	Mosaic and Tonal Balancing: Create full resolution (1m), tonally balanced, seamless, Ikonos pan sharpened mosaic covering client area of interest. 16 total scenes. Delivery uncompressed on 8mm or DVD.	16	\$375	\$6,000
2	Tile data in approximate 2G blocks	8	\$100	\$800
3	Custom EarthSat local contrast enhancement for maximum spectral information.	1	\$1,500	\$1,500
4	Minimum Noise Fraction calculation	16	\$1,000	\$16,000
	Output uncompressed on 8mm tape or DVD			
5	Output compressed with MRSID on CD-ROM	1	\$1,500	\$1,500
	Total for digital mosaic			\$25,800
	GeoPic Prints			
6	GeoPic print (collar with lat/long tick marks, UTM, Title, Scale bar, Geocode information). Scale to be determined. Two 48" x 96" panels (8' x 8' print)	1	\$950	\$950
7	GeoPic print (collar with lat/long tick marks, UTM, Title, Scale bar, Geocode information). 40" x 40" print.	1	\$300	\$300
	Grand Total			\$27,050

Shipping additional.

Price quote is in US Dollars.

This quote is good for 30 days.

EarthSat terms and conditions apply.

If these terms are agreeable please sign and return by fax, along with Purchase/Work Order.

NAME PRINTED:

DATE:

AUTHORIZED SIGNATURE:

PO#:

Center for Nuclear Waste Regulatory Analyses
(210) 522-5183

From: Larry McKague Date: 8/8/02

To: RODGER MITCHELL,

RODGER ENCLOSED ARE
THE IKONOS TAPES. WE
ARE STILL WORKING ON
THE PAPER WORK FOR THE
P.O. BUT I WANT TO GET
THE TAPES INTO THE
FED EX SYSTEM. I OR
SWRI WILL FORWARD A
P.O. NUMBER TOMORROW
BY E MAIL, TELEPHONE
OR FAX. DO NOT START
WORKING ON THESE UNTIL →

YOU RECEIVE THE
P.O. NUMBER

Larry McKague

Fed Ex: 8297 5197 0572

3246

4 MINIMUM BASED ON LANDSAT PLUS NOISE
ADDED PROCESSING TIME
NOW RECURRING EXPENSE
LABOR + PROCESSING / KANOS
SHEET

3246

CONSTANT PRO. POLICING. 375

GEOCOVER. COM BASIC

$$(176)(.40) + 125$$

FOR PROCESSING KANOS. 125

BASE PRICE 125 176 - LANDSAT
+ 40%
1
176

*** IF TRANSMISSION REPORT ***

AUG-08-02 15:49

ID:2105225155

CTR NUC WASTE REG ANA

START TIME	AUG-08-02 15:48
TELEPHONE NUMBER	3246
NAME (ID NUMBER)	PURCHASING
TRANSMISSION MODE	G3
RESOLUTION	STD
PAGES TRANSMITTED	03
MAILBOX	OFF
SECURITY	OFF
INFORMATION CODE	OK
REDIALING TIMES	00
MACHINE ENGAGED	01'13

PHOTOGRAPHIC PRINT PRICES

Print Sizes	200/48" X 96"	200/48" X 96"	200/48" X 96"	200/48" X 96"	Laminating	GeoPic	2nd Panel	2nd-5 th per panel copy	6th-10 th per panel copy	11 th etc. per panel copy
40" x 40"	\$300	\$150	\$75	\$60	\$76	\$300	\$150	\$75	\$60	\$50
40" x 50"	\$300	\$150	\$75	\$60	\$87	\$350	\$200	\$100	\$75	\$65
50" x 50"	\$400	\$200	\$100	\$75	\$96	\$400	\$250	\$125	\$100	\$90
48" x 60"	\$400	\$200	\$100	\$75	\$114	\$450	\$300	\$150	\$100	\$90
48" x 70"	\$500	\$250	\$125	\$100	\$122	\$500	\$350	\$175	\$125	\$100
48" x 96"	\$500*	\$250	\$125	\$100	\$175	\$550	\$400	\$200	\$150	\$125

***MURALS \$500 PER PANEL**

MOUNTING ON FOAM CORE 3/16" \$200/48" X 96" PANEL

MOUNTING ON FOAM CORE 3/16" \$120/48" X 48" PANEL

2 DAY DELIVERY TIME

ADD 3 DAYS FOR MOUNTING AND LAMINATING

- Variety of Tape and CD-ROM, and CD-Writing drives
- Two 54" Color Electrostatic Plotters
- One Lightjet 5000 Direct Digital-to-Print 3-color printer
- RImage CDROM Writer
- Large Format Photo Lab

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2.0 SUPPORT PRODUCT SERVICES

EarthSat provides standard product line image processing, printing, plotting and CD writing services. These services are offered as part of the above Environmental Information and GIS Services or as stand alone products to meet ordering agency specific requirements. The following data sheets describe the services and end product prices.

EARTHSAT STANDARD PRODUCTS

IMAGE PROCESSING

Image Processing Products (US\$)

PRODUCT ORDERED	1 TO 10	11+ COMMENTS
GEOPIC(r) Processing		
GEOPIC(r) (to ephemeris)	\$303.00	\$202.00
GEOPIC(r) (with other processing)	\$252.50	\$176.75
Other Processing		
Data Fusion (Landsat and/or SPOT - 3 bands)	\$252.50	\$202.00
Data Fusion (7 bands - Landsat)	\$505.00	\$454.50
Minimum Noise Fraction/PC	\$606.00	\$505.00
Decorrelation Stretch	\$505.00	\$454.50
Orthorectification		
Ortho to GeoCover Ortho	\$398.95	\$328.25
Ortho to Client Provided Map	\$499.95	\$429.25
Mosaic (per scene) Uncompressed	\$176.75	\$126.25
Custom Services		
Projection Setup	\$151.50	One Time
Best Band Selection	\$303.00	One Time
Window Area of Interest	\$101.00 Per AOI	
Custom Collar	\$202.00 Per Collar	
MrSID Compression	\$252.50 Per 2 Gigabytes	

EarthSat produces a wide variety of enhanced image products from Landsat, SPOT, IRS, RADARSAT and other satellite digital data. The above prices apply to common products and services. Custom products to meet your specific needs are also available.

GEOPIC(r) Imagery

3-Day turn-a-round time Product includes one custom print (up to 40"x40") at one

customer specified scale or a CDROM/digital tape in a "standard" format

Print includes:

- Scene name (1 line) supplied by customer or selected by EarthSat
- Latitude/Longitude and/or map projection external ticks based on satellite ephemeris or geocoding (if selected as an option)
- North arrow English and metric scale bars
- Image identification information - acquisition date, world reference identification, scene center, coordinates, sensor, bands, processing algorithm
- Processing using EarthSat's proprietary algorithms includes convolution edge enhancement, and contrast enhancement
- Appropriate copyright information

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GEOCOVER-ORTHO DATA (US\$)

PRODUCT ORDERED	1 TO 5	6+ COMMENTS
Stock Scenes (UTM projection)	Call for Availability	
Nearest Neighbor	\$202.00	\$126.50
Cubic Convolution	\$252.50	\$151.50
Stock Mosaics (Bands 7,4,2 - R,G,B) 6 degree wide by 5 degree high		
Compressed (MrSID)	\$303.00	\$202.00
Uncompressed	\$328.25	\$227.25
Scene Reprojection		
Custom-Nearest Neighbor	\$303.00	\$176.75
Custom-Cubic Convolution	\$353.50	\$227.25
Mosaic		
Custom (uncompressed)	\$378.75	\$176.75
Custom Regional(>25 scenes*,uncomp)	\$2,525 base + \$15.15 each image	
Custom Services		
Projection Setup	\$151.50	One Time
Best Band Selection	\$303.00	One Time
Window Area of Interest	\$101.00 Per AOI	
Custom Collar	\$202.00 Per Collar	
MrSID Compression	\$252.50 Per 2 Gigabytes	

The GeoCover Ortho product line features many stock (off-the-shelf) products, delivered to customers within 24 hours of receipt of order (for orders under 10 scenes). Standard format for GeoCover Ortho data is GeoTIFF or MrSID for compressed files.

Stock GeoCover Ortho Scenes are individual Landsat scene covering an area of approximately 170x170 kilometers at a spatial resolution of 28.5 meters. Stock Scene data sets are comprised of all seven Landsat spectral bands and are in a UTM (Universal Transverse Mercator) map projection with a geodetic accuracy of better than 50 meters RMS. Scene dates are typically 1990 +/- 3 years.

Stock Mosaics - Mosaics of Landsat TM Scenes are digital mosaics of up to fifteen (15) Landsat scenes covering a five (5) degree (north-south) and six (6) degrees (east-west) UTM partition. The mosaics are contrast enhanced color image data products comprised of Landsat TM bands 7,4,2 composited in red, green, and blue, respectively. The imagery have a spatial resolution of 28.5 meters and are in a UTM (Universal Transverse Mercator) map projection with a geodetic accuracy of better than 50 meters RMS.

Regional Mosaics - Regional Mosaics are large area (small scale) mosaics of up to 1200+ Landsat scenes at resolutions typically ranging from 90 to 150 meters. These mosaics are available for certain areas. Call for availability.

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PRINTS

LightJet 5000RS Digital Photographic Print Fees (US\$)

Print Sizes	First Print	2nd - 5th	6th - 10th	11th etc.
8.5" x 11"	\$35.35	\$15.15	\$7.07	\$5.05
11" x 14"	\$50.50	\$25.25	\$20.2	\$15.15
20" x 20"	\$101.00	\$50.50	\$25.25	\$20.20
30" x 30"	\$111.10	\$55.55	\$30.30	\$25.25
40" x 40"	\$151.50	\$75.75	\$60.60	\$50.50
40" x 50"	\$202.00	\$101.00	\$75.75	\$65.65
50" x 50"	\$252.50	\$126.25	\$101.00	\$90.90
48" x 60"	\$303.00	\$151.50	\$101.00	\$90.90
48" x 70"	\$353.50	\$176.75	\$126.25	\$101.00
48" x 96"	\$404.00	\$202.00	\$151.50	\$126.25

Standard delivery in 2 days for quantities less than 15; call for delivery of orders greater than 15. \$100 minimum print order.

Additional Charges:

- For same day (8 hour) service, add 100%. (2 times list price)
- For next day service, add 50%. (1.5 times list price)
- For classified printing service, add 50% (1.5 times list price)

Call to confirm rush service availability. Print price is based on receipt of TIFF file on CD (with exact file size indicated). Add \$150 if conversion to TIFF or custom scaling is required.

LightJet 5000 RS Specifications/Requirements

- Input format: TIFF, Postscript
- Max rows and columns/ max file size: 20,000 pixels x 20,000 lines. Files up to 2 Gigabytes.
- Max output size: 50 inches x 50 inches / 48 inches x 96 inches.

- 48 inches in width for any print over 50 inches in one dimension.
- Medium required: 8mm, CD-ROM or FTP (we prefer CD-ROM)
- Additional charge for file format conversions.
- Scaling: Client provides scaling information.
- Other: Custom color matching at additional cost.

All files should be opened and previewed by client to assure that they are in the correct format and complete.

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HP DESIGN JET 3000CP/3500CP PLOTS

Price per linear foot

Plot	Draft Copies	98 gram Paper	132 gram Paper	4 mil Clear Film	4 mil Glossy Photo Paper
1-5	\$20.20	\$25.25	\$27.78	\$30.30	\$20.20
6-10	\$17.68	\$22.73	\$25.25	\$27.78	\$17.68
11-20	\$15.15	\$20.20	\$22.73	\$25.25	\$15.15
21-50	\$12.63	\$17.68	\$20.20	\$22.73	\$12.63
50+	\$10.10	\$15.15	\$17.68	\$20.20	\$10.10

Price per 4-linear foot

Plot	Draft Copies	98 gram Paper	132 gram Paper	4 mil Clear Film	4 mil Glossy Photo Paper
1-5	\$80.80	\$101.00	\$111.10	\$121.20	\$363.60
6-10	\$70.70	\$90.90	\$101.00	\$111.10	\$333.30
11-20	\$60.60	\$80.80	\$90.90	\$101.00	\$303.00
21-50	\$50.50	\$70.70	\$80.80	\$90.90	\$272.70
50+	\$40.40	\$60.60	\$70.70	\$80.80	\$242.40

Standard delivery in 2 days for quantities less than 10; call for delivery of orders greater than 10. \$100 minimum print order.

Additional Charges:

- For same day (8 hour) service, add 100%. (2 times list price)
- For next day service, add 50%. (1.5 times list price)
- For classified printing service, add 50% (1.5 times list price)
- Add \$150 if conversion to TIFF or custom scaling is required.

Call to confirm rush service availability. Print price is based on receipt of TIFF file on CD (with exact file size indicated).

HP DesignJet 3000CP, 3500CP Specifications/Requirements

- Input format: TIFF, Postscript
- Max output size: 53 inches x 53 inches / 53 inches x 96 inches.
- 53 inches in width for any print over 50 inches in one dimension.
- Medium required: 8mm, CD-ROM or FTP (we prefer CD-ROM) Additional charge for file format conversions.
- Scaling: Client provides scaling information.
- Other: Custom color matching at additional cost.

All files should be opened and previewed by client to assure that they are in the correct format and complete
7/25/00

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CDROMs and MAGNETIC TAPE

CDROM and Magnetic Tape Mastering and Copying

Copies 1-3	\$101.00
Copies 4- 5	\$50.50
Copies 6 - 10	\$20.20
Copies 11 - 50	\$10.10
Copies >50	\$5.05
Copies	Cost
1	\$101.00
2	\$202.00
3	\$303.00
4	\$353.50
5	\$404.00
6	\$424.20
7	\$444.40
8	\$464.60
9	\$484.80
10	\$505.00
11	\$515.10
50	\$909.00
51	\$914.05

Examples:

3 Copies Quantity	Cost Each	Total	21 Copies Quantity	Cost Each	Total
1	\$101.00	\$101.00	3	\$101.00	\$303.00
2	\$101.00	\$202.00	2	\$50.50	\$101.00
3	\$101.00	\$303.00	5	\$20.20	\$ 101.00
			11	\$10.10	\$111.10
			21		\$616.10

CDROMs:

Data provided in ISO9660 (Level 1, Level 2, or Joliet) Format


Magnetic Tape:


- Media supported include: 8mm (14 GB compressed) Mammoth (40 GB compressed), and DLT (70 GB compressed)
- Formats supported include: TAR, CPIO (other formats may be available at additional cost).

EARTH SATELLITE CORPORATION (EarthSat)
6011 Executive Boulevard, Suite 400, Rockville, MD 20852
Telephone: (301) 231-0660 Fax: (301) 231-5020 <http://www.earthsat.com>

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Production Capabilities Support	Crop/Risk Assessment	Remote Sensing	Oil & Gas Industry
Imagery Products & Services	Energy/Weather	Geographic Info. Systems (GIS)	Water Exploration
Printing Services	Land Use/Urban	National Security Policy Support	Mineral Exploration
Research & Development	Planning	Public Policy Solutions	Engineering Support

- modeling
- analysis
- cartographic design
- hardcopy color plotting

Project Services

Tasks normally included in an EarthSat GIS mapping, database and database management project include the development of:

- database inventories
- database management system
- data dictionary
- production methodology
- project quality control procedures
- cartographic base maps
- thematic data layers
- analysis and modeling
- deliverable product formats and media

Each GIS production process follows standard published quality control guidelines.

EarthSat digital GIS products can be formatted for input to most GIS and desktop mapping software.

Delivery: Time of Delivery for Services will vary depending on the complexity of the task requested.

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Functional and Labor Rate Categories and Definitions:

30-Jan-01

FUNCTIONAL CATEGORIES	HOURLY RATES
Administrative Support	
I	71.92
II	51.06
Agronomist	
Senior Scientist II	70.12
Agricultural Hydrologist	
Principal Scientist II	97.08
Anthropologist	
Senior Scientist I	80.90
Senior Scientist II	70.12
Environmental Scientist	
Principal Scientist II	97.08
Senior Scientist II	70.12
Scientist I	61.13
Geographer	
Principal Scientist II	97.08
Senior Scientist I	80.90
Senior Scientist II	70.12
Scientist I	61.13
Scientist II	53.94
Staff Scientist I	46.74

Staff Scientist II	39.55
Technician	32.36
Geologist	
Chief Scientist II	179.79
Principal Scientist I	143.83
Principal Scientist II	97.08
Geologist/Environmental	
Principal Scientist II	97.08
GIS Specialist	
Principal Scientist I	143.83
Principal Scientist II	97.08
Senior Scientist I	80.90
Senior Scientist II	70.12
Scientist I	61.13
Scientist II	53.94
Staff Scientist I	46.74
Staff Scientist II	39.55
Technician	32.36
Image Analyst	
Chief Scientist I	215.76
Chief Scientist II	179.79
Principal Scientist I	143.83
Principal Scientist II	97.08
Senior Scientist I	80.90
Senior Scientist II	70.12
Scientist I	61.13
Scientist II	53.94
Staff Scientist I	46.74
Staff Scientist II	39.55
Technician I	32.36
Image Processor	
Chief Scientist II	179.79
Principal Scientist II	97.08
Senior Scientist I	80.90
Senior Scientist II	70.12
Scientist I	61.13
Scientist II	53.94
Staff Scientist I	46.74
Staff Scientist II	39.55
Technician I	32.36
Landscape Architect	
Principal Scientist I	143.83
Meteorologist	
Chief Scientist II	179.79
Principal Scientist I	143.83
Principal Scientist II	97.08
Senior Scientist I	80.90
Scientist II	53.94
Staff Scientist I	46.74
Staff Scientist II	39.55
Technician I	32.36
Natural Resource Manager	
Senior Scientist I	80.90
Scientist II	53.94
Photolab Manager	
Senior Scientist I	80.90
Photolab Technician	

Senior Scientist I	80.90
Senior Scientist II	70.12
Project Manager	
Project Manager	143.84
Chief Scientist I	215.76
Chief Scientist II	179.79
Principal Scientist I	143.83
Principal Scientist II	97.08
Programmer	
Chief Scientist II	179.79
Principal Scientist I	143.83
QA/QC Specialist	
Principal Scientist II	97.08
Senior Scientist I	80.90
Scientist II	53.94
Soils Scientist	
Senior Scientist II	70.12
Scientist I	61.13
Scientist II	53.94
Wildlife Manager	
Chief Scientist I	215.76

EARTHSAT DIRECT LABOR CATEGORY DESCRIPTIONS

Chief Scientist:

Conceives, researches, and develops advanced applications and exploitation techniques for existing, new and proposed systems. Implements new concepts through internal and funded development programs. Provides technical advice, and counsel to other professionals and brings both specialty and broad experience to peer review of new developments and problem solutions generated by others.
Normal Qualifications: Ph.D. degree or equivalent
Experience: 10 or more years.

Principal Scientist:

Plans, conducts supervises projects of major significance, necessitating advanced knowledge and the ability to originate and apply new and unique methods and procedures. Supplies technical advice and counsel to other professionals. Generally operates with wide latitude for unreviewed action.
Normal Qualifications: Ph.D. degree or equivalent
Experience: 10 years or more

Senior Scientist:

Under general supervision of Project Manager, plans, conducts and supervises focused technical applications and exploitation project assignments. Estimates and schedules work to meet completion dates. Directs assistance, reviews progress and evaluates results; makes changes in methods, unreviewed action or decision.
Normal Qualifications: Masters degree or equivalent
Experience: 6-12 years

Scientist:

Under supervision of a Project Manager or Senior Scientist carries out assignments associated with projects. Translates technical guidance received from supervisor into usable data applicable to the particular assignment coordinates the activities of juniors and technicians. Work assignments are varied and require some originality and ingenuity.

and integrity.

Normal Qualifications: B.S. degree or equivalent
Experience: 3-8 years

Staff Scientist:

Works under close supervision of Project Manager or Scientist. Gathers and correlates basic data and performs routine analyses subject to Quality Assurance and Control procedures. Works on less complicated assignments where little evaluation is required.

Normal Qualifications: B.S. degree or equivalent; and
Experience: 0-3 years

Technician:

Performs assignments that are normally standardized. Operates testing or processing equipment of moderate complexity. Prepares digital maps, charts or graphs. May install or set-up equipment, perform routine maintenance, trouble shoot malfunctioning equipment and make simple repairs. Extracts and processes test data.

Normal Qualifications: Specialty Certification Training
Experience: 0-6 years

Experience/Qualifications Substitutions

- (1) Any combination of additional years of experience in the proposed field of expertise plus full time college level study in the particular field totaling four (4) years will be an acceptable substitute for a B.S. degree.
- (2) A B.S. degree plus any combination of additional years of experience and graduate level study in the proposed field of expertise totaling two (2) years will be an acceptable substitute for a Masters degree.
- (3) A B.S. degree plus any combination of additional years of experience and graduate level study in the proposed field of expertise totaling four (4) years or a Masters degree plus two (2) years of either additional experience or graduate level study in the proposed field of expertise will be an acceptable substitute for a Ph.D. degree.
- (4) Additional years of graduate level study in an appropriate field will be considered equal to years of experience on a one-for-one basis.

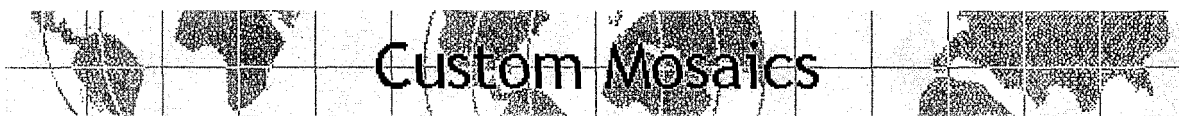
Software

EarthSat's uses the latest versions of ERDAS Imagine, ARC/INFO, and ArcView(r) and MapInfo. Six ARC/INFO workstation packages include capabilities for vector modeling and analysis, raster-to-vector processing, 3-D modeling for topographic output.

PCI EASI/PACE, ENVI, and ZI Image Analyst are also used for specialized image processing. GIS outputs are potentially enhanced through the availability of such graphic software as Adobe Photoshop and Illustrator, EarthView, Power Point, and VISIO.

Facilities

- Two SUN Enterprise 4500 Servers, 10 Processors with 6 and 4 GB RAM
- One Terabyte Fibre Channel Array - Fourteen 73 GB Seagate Cheetah Disks
- Two Silicon Graphics True Color Workstations
- 62 Window NT Workstations
- Five 40x60 Inch Coordinate Digitizers



Flo

[← Home](#) [GeoCover Story →](#)[Home](#)

Custom Mosaics:

[Up](#)

GeoCover-Ortho Custom Mosaics three band (24-bit) color images constructed either GeoCover-Ortho Stock Scenes (if a UTM projection is desired) or GeoCover-Ortho Projected Scenes.

The customer specifies the area to be covered (any number of juxtaposed GeoCover-Ortho scenes), the output pixel size, and the three spectral bands used in the creating the final color composite.

Because GeoCover-Ortho imagery is being used for the Custom Projection products, the image data availability is the same as that for the GeoCover-Ortho Stock Scene products.

Production Status and Product Availability

Product Specifications:

- ⊗ Worldwide coverage of the Earth's Landmass
- ⊗ 50 meter RMS positional accuracy
- ⊗ Three band color images, using customer specified TM bands
- ⊗ Customer specified projection and datum
- ⊗ Customer specified pixel size
- ⊗ Customer specified interpolation method
- ⊗ GeoTIFF or Compressed (using MrSID data compression)
- ⊗ "Load&Go" GIS compatible

Pricing is based on the number of individual scenes comprising mosaic: (Prices are cumulative, see example below)

	Qty: First 5	Qty: 6th - 99th*
Digital Only (no print)	\$375 per Mosaicked Scene	\$175 per Mosaicked Scene
Digital plus 1st Print of Full Mosaic	\$375 per Mosaicked Scene, Plus...	\$175 per Mosaicked Scene, Plus...
	\$450 for the 1st 48x60 inch print of full mosaic	

* For pricing of mosaics comprised of greater than 100 scenes, please contact GeoCover sales at geocover_sales@earthsat.com

Cumulative Pricing Example:

Price of a fifteen (15) scene mosaic (digital data only) would be -
(5 x \$375) plus (10 x \$175) for a total of \$3,625.

Compressed image file data have been digitally compressed
MrSID software:



Would you like more information?

For more information about product specifications, product availability, product applications, or anything else of concern or interest, please contact us at...

Electronic mail

General Information: info@earthsat.com

Sales: geocover_sales@earthsat.com

Customer Support: geocover_support@geocover.com

Telephone

301-231-0660 (Ask for "GeoCover-Ortho Customer Relations")

FAX

301-231-5020

[[Home](#)] [[Up](#)]



This site is best viewed with a browser such as the two shown here; click to download the latest version.



Send mail to webmaster1@earthsat.com with questions or comments about this web site.

Last modified: January 05, 2000

No requisition is available for the record you have requested.
610292

Purchase Order # 270195N

Vendor: LEHIGH UNIVERSITY

Order Date: 05/14/02

Due Date: 05/25/02

<u>LN</u> <u>NO</u>	<u>ORD</u> <u>QTY</u>	<u>REC</u> <u>QTY</u>	<u>ACC</u> <u>QTY</u>	<u>REC</u> <u>DATE</u>	<u>SHIP</u> <u>VIA</u>	<u>TOT</u> <u>AMT</u>	<u>DESCRIPTION</u>
<u>1</u>	1	0	0		BEST WAY	\$3,000.00	SERVICE PURCHASE ORDER

Total \$3,000.00

NOTES: NOTE: ATTACHMENT DATED 5/13/02 IS INCORPORATED AS PART OF THIS ORDER. WORK WILL BE ACCOMPLISHED BY CNWRA STAFF MEMBER JOHN STAMATAKOS.

FOOTNOTES: JHM1 P12 P8

*paid
period 10*

1402.471



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

10
5/6/02

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

✓ 610292

SUGGESTED OR PREVIOUS SUPPLIER

LeHigh University

CITY, STATE

Bethlehem, PA 18015-3188

ATTN:

Kenneth P. Kodama

PHONE

610/758-3660

FAX

610/758-3677

DELIVER TO

John Stamatakos

SHIP VIA

PURCHASING SELECTED SUPPLIER

F.O.B.

SUPPLIER CODE

ATTN

TERMS

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	1		Paleomagnetic Laboratory Use Fees	20	01402	471	100%	May 17, 02	\$3,000.00
			Measurement of 120 samples of						
			sedimentary and igneous rocks from						
			YM region. Period of Performance:						
			May 20, 2002 - May 25, 2002						
			See attached: Sole Source Memo,						
			and Quote.						
			WORK will be accomplished						
			by CMCRA staff member STAMATAKOS.						
			Attn: Flo Cisneros						

INTERNAL NOTES TO BUYER

SPECIAL INSTRUCTIONS TO SUPPLIER

TOTAL

1. Government Project? ☒ YES ☐ NO

IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)

a ☐ G-1 CONSUMABLEb ☐ G-2 DELIVERABLEc ☐ G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

☐ YES☐ NO2. QUALITY ASSURANCE? ☒ YES ☐ NOa ASL REQUIRED? ☒ YES ☐ NO

b QA CODES:

N/A

c INSPECTION CRITERIA

By P.I. Stamatakos

d QA APPROVAL (IF REQUIRED) DATE

By P.I. Stamatakos 5/10/02

3. SOURCING NOTES

IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? ☒ YES ☐ NO

IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.

REQUESTOR'S SIGNATURE

John Stamatakos

EXT. NO.

5247

DEPT. / DIVISION APPROVAL

Lawrence McKague

DATE

5/10/02

ADMIN. APPROVAL

Rudhi Sagar

DATE

5/10/02

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?

☒ YES ☐ NO

b IS THE REPAIR ON OR OFF CAMPUS?

☐ ON ☐ OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. _____

CONTRACT REVIEW APPROVAL

DATE

BUYER SIGNATURE

DATE

SEE INSTRUCTIONS ON REVERSE SIDE



LEHIGH
University

Department of Earth and
Environmental Sciences
31 Williams Drive
Bethlehem, PA 18015-3188
(610) 758-3660 Fax (610) 758-3677
<http://www.lehigh.edu>

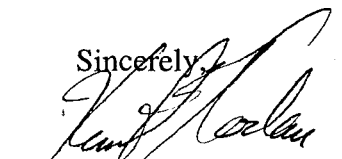
April 29, 2002

Dr. John Stamatakos
CNWRA
Southwest Research Institute
6220 Culebra Road
San Antonio, Texas 78238

Dear John:

This letter is in response to your request for a quote of my paleomagnetic laboratory use fees. My use fee for processing a paleomagnetic sample (including thermal or alternating field demagnetization) is \$25.00/sample. You plan to measure 120 samples of sedimentary and igneous rocks from the Yucca Mountain region between May 20 and 25th. The total use fee for using the Lehigh University Paleomagnetism Laboratory to measure and demagnetize these samples would be $\$25.00 \times 120 = \3000 .

Sincerely,



Kenneth P. Kodama
Professor

JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

Date: May 7, 2002

To: Purchasing

From: John Stamatakos

Subject: Sole Source Justification

Purchase Requisition No: 610292

Project No: 20.01402.471

Recommended Source: LeHigh University

This form must be completed and returned to Purchasing before your Purchase Requisition can be awarded.

1. Is the recommended source the only source you considered?

() Yes

(X) No

a. If you checked yes, why didn't you consider any other sources?

b. If you checked no, what other sources did you consider?

UNIVERSITY OF MICHIGAN

How did you determine that the recommended source was the only source? (include any market survey conducted, as well as review of technical journals and other sources such as the Thomas Register.)

Why were these other sources ruled out for this purchase?

2. What characteristics does this item/company have that are necessary, and that no other item/company has?
 THE LEHIGH PALEOMAG. SYSTEM (UAB) IS FULL AUTOMATED WHICH ALLOW SAMPLES TO BE DONE QUICKER AND MORE RELIABLY
 - FULLY AUTOMATED SYSTEM

3. Remarks: THE RESULTS OBTAINED ON LEHIGH UNIVERSITY SYSTEM WILL BE MORE ACCURATE LESS CHANCE FOR ERROR AND WILL COST LESS TO MEASURE PER SAMPLE
 I certify that this justification is accurate and complete to the best of my knowledge. BECAUSE OF INCREASED SPEED OF SYSTEM.

Purchase Requisition Requester: *A. Lammie McKee*

G:\FORMS\SOLESOURCE.MEM

No requisition is available for the record you have requested.
600421

Purchase Order # 270188N

Vendor: MINERAL OPTICS LABORATORY

Order Date: 03/14/02

Due Date: 03/14/02

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	<u>DESCRIPTION</u>
<u>1</u>	1	0	0		YOUR TRUCK	\$150.00	SERVICE PURCHASE ORDER
Total						\$150.00	

NOTES: (none)

FOOTNOTES: P8 P12

*paid
prior
10*

1402.471



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

13 Mar 2002

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

600421

SUGGESTED OR PREVIOUS SUPPLIER

Mineral Optics Laboratory

DELIVER TO

Danielle Murray (address below)

PURCHASING SELECTED SUPPLIER

CITY, STATE

29 A Street, PO Box 828; Wilder, VT 05088-0828

SHIP VIA

ATTN:

F.O.B.

SUPPLIER CODE

ATTN

PHONE

802-295-9373

FAX

TERMS

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	6	ea	Rock samples -- being sent from Purdue University to be cut XXXX into thin sections. The samples are not oriented, the sections are cut to a thickness of 30 micrometers (22 micrometers). The samples will be inspected to make sure they are within the range of thickness by optical observation of quartz interference colors. Inspection will be done by Ken Ridgway (professor of Geology at Purdue Univ.) and Danielle Murray (has taken optical mineralogy class).						
			SAMPLES WILL BE SENT BACK TO:						
			Danielle Murray						
			1397 Divil Engineering Bldg.						
			Dept. of Earth and Atmospheric Sciences						
			Purdue University						
			West Lafayette, IN 47907						
			(765) 494-0276						
				20	01402	471	100	ASAP	\$ 24.00

INTERNAL NOTES TO BUYER

Send req. to Roseanne Ard/B. 189

SPECIAL INSTRUCTIONS TO SUPPLIER

TOTAL

\$ 150.00

1. Government Project? ☒ YES ☐ NO

IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)

a ☐ G-1 CONSUMABLEb ☒ G-2 DELIVERABLEc ☐ G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

☐ YES☐ NO2. QUALITY ASSURANCE? ☒ YES ☐ NOa ASL REQUIRED? ☒ YES ☐ NO

b QA CODES:

c INSPECTION CRITERIA

see notes above

d QA APPROVAL (IF REQUIRED)

DATE

3. SOURCING NOTES

IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? ☒ YES ☐ NO

IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.

REQUESTOR'S SIGNATURE

EXT. NO.

DEPT. / DIVISION APPROVAL

DATE

ADMIN. APPROVAL

DATE

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?

☒ YES ☐ NO

b IS THE REPAIR ON OR OFF CAMPUS?

☐ ON ☐ OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. _____

CONTRACT REVIEW APPROVAL

DATE

BUYER SIGNATURE

DATE

SEE INSTRUCTIONS ON REVERSE SIDE

No requisition is available for the record you have requested.
600410

Purchase Order # 294799X**Vendor:** MINERAL OPTICS LABORATORY**Order Date:** 02/15/02**Due Date:** 02/26/02

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	<u>DESCRIPTION</u>
1	1	0	0		YOUR TRUCK	\$2,985.00	SERVICE PURCHASE ORDER
Total						\$2,985.00	

NOTES: (none)**FOOTNOTES:** P8 P12

*paid
period 10*

1402. 471



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE

4 Feb 2002

DEPARTMENT

REQUISITION DATE ORDER DATE PURCHASE ORDER NUMBER REQ. NO.

SUGGESTED OR PREVIOUS SUPPLIER		DELIVER TO		PURCHASING SELECTED SUPPLIER	
Mineral Optics Laboratory		Dannelle Murray (address below)			
CITY, STATE		SHIP VIA			
29 A Street, PO Box 828; Wilder, VT 05088-0828					
ATTN:		F.O.B.		SUPPLIER CODE	
PHONE		TERMS		PHONE	
802-295-9373					
FAX				FAX	

LN.	QTY	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
XA	129	ea	Rock samples -- being sent from Purdue University to be cut into thin sections. 80 will be uncovered slides, the samples are not oriented, the sections are cut to a thickness of 30 micrometers (+/- micrometers). The samples will be inspected to make sure they are within the range of thickness by optical observation of quartz interference colors. Inspection will be done by Ken Ridgway (professor of Geology at Purdue Univ. and Danielle Murray (has taken optical mineralogy class). SAMPLES WILL BE SENT BACK TO: Danielle Murray 1397 CIVIL Engineering Bldg. Dept. of Earth and Atmospheric Sciences Purdue University West Lafayette, IN 47907 (765) 494-0276	ZO	0140Z	471	100	ASAP	\$ 24.00
									XXXXXXXXXX
INTERNAL NOTES TO BUYER									
Send req. to Roseanne Ard/B. 189									
SPECIAL INSTRUCTIONS TO SUPPLIER									
TOTAL									\$ 3,100.00

1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. SOURCING NOTES		4. REPAIRS	
IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)		a. ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		a. IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
b. G-1 CONSUMABLE <input type="checkbox"/>		b. QA CODES: N/A		IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.		b. IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input checked="" type="checkbox"/> OFF	
c. G-2 DELIVERABLE <input checked="" type="checkbox"/>		c. INSPECTION CRITERIA SEE NOTES		REQUESTOR'S SIGNATURE J. St. Martin		c. IF OFF CAMPUS PROVIDE SHIPPING TICKET	
d. IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input type="checkbox"/>		d. QA APPROVAL (IF REQUIRED) N/A		DEPT./DIVISION APPROVAL L. Thompson			
e. G-3 ACCOUNTABLE / REPORTABLE <input type="checkbox"/>		e. QA APPROVAL (IF REQUIRED) N/A		ADMIN. APPROVAL B. Sargent			
f. G-4 DELIVERABLE <input type="checkbox"/>		f. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			
g. G-5 ACCOUNTABLE / REPORTABLE <input type="checkbox"/>		g. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			
h. G-6 DELIVERABLE <input type="checkbox"/>		h. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			
i. G-7 DELIVERABLE <input type="checkbox"/>		i. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			
j. G-8 DELIVERABLE <input type="checkbox"/>		j. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			
k. G-9 DELIVERABLE <input type="checkbox"/>		k. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			
l. G-10 DELIVERABLE <input type="checkbox"/>		l. QA APPROVAL (IF REQUIRED) N/A		DATE 2/14/02			

SEE INSTRUCTIONS ON REVERSE SIDE

Justification for Other Than Full and Open Competition

Date: February 5, 2002
To: Adolph S. Puente
From: John A. Stamatakos
Subject: Sole Source Justification
Purchase Requisition No.: 600410
Project No.: 20.01402.471
Recommended Source: Mineral Optics Laboratory

This form must be completed and returned to Purchasing before your Purchase Requisition can be awarded.

1. Is the recommended source the only source you considered?

() Yes (X) No

A. If you checked yes, why didn't you consider any other sources?

B. If you checked no, what other sources did you consider?

SAN DIEGO PETROGRAPHICS SAN DIEGO, CA

How did you determine that the recommended source was the only source?

(Include any market survey conducted, as well as review of technical journals and other sources such as the Thomas Register.)

CENTER HAS USED THIS SUPPLIER BEFORE

Why were these other sources ruled out for this purchase?

COULD NOT MEET QA / SCHEDULE REQUIREMENTS

2. What characteristics does this item/company have that are necessary, and that no other item/company has?

Remarks: THIN SECTIONS NEED TO CONFORM TO SPECIFICATIONS FOLLOWING
CENTER QA PROCEDURES. MINERAL OPTICS LAB. HAS MET CENTER QA
REQUIREMENT IN PAST PROJECTS. ALSO MINERAL OPTICS LAB. CAN
I certify that this justification is accurate and complete to the best of my knowledge.

MEET REQUIRED
2-3 WEEK TURN AROUND
TIME.

Purchase Requisition Requester:

