



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 6/11/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ 624841
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SUGGESTED OR PREVIOUS SUPPLIER Anaerobe Systems		DELIVER TO L. Yang/bldg. 57		PURCHASING SELECTED SUPPLIER	
CITY, STATE Morgan Hill, CA		SHIP VIA			
ATTN: Jeremy McDonald		F.O.B.		SUPPLIER CODE	ATTN
PHONE 408/782-7557	FAX 408/782-2031	TERMS		PHONE	FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
	12	Pkg	AS-888B modified Baar's broth, 10 tubes per package, 9 ml per tube, desulfovibrio	20	06002.01.	081	100	6/12/03	15.85
B	12	Pkg	AS-889B nutrient broth 1.5% NaCl, 10 tubes per pkg, vibrio, 9 ml per tube	20	06002.01.	081	100	6/12/03	13.85
C	27	Pkg	AS-889A nutrient agar with 1.5% NaCl 4 plates per pkg, vibrio	20	06002.01.	081	100	6/12/03	7.40
Quality & Technical Requirements: Certificate of compliance must be provided.									
Acceptance Test will be conducted in The CNMRA Laboratory and will consist of successfully culturing the microbes of interest. <i>Ben</i>									

INTERNAL NOTES TO BUYER URGENT PLEASE RUSH!!!!	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
--	----------------------------------	-------

1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input type="checkbox"/> YES <input type="checkbox"/> NO	2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b QA CODES: Q1, Q7, Q13 product sheet data only c INSPECTION CRITERIA SEE ABOVE d QA APPROVAL (IF REQUIRED) <i>Ben</i> DATE 6/12/03	3. SOURCING NOTES 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 IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE Lietai Yang EXT. NO. 2483 DEPT. / DIVISION APPROVAL <i>[Signature]</i> DATE 6/11/03 ADMIN APPROVAL <i>[Signature]</i> DATE 6/12/03	4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
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CONTRACT REVIEW APPROVAL

DATE

BUYER SIGNATURE

DATE

SEE INSTRUCTIONS ON REVERSE SIDE

6220 Culebra Road
San Antonio, TX 78238-5166

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Page: 1
Date Printed: 08/07/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
'06/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC		EA	08/13/03	08/13/03	10.0000	85.8500	\$858.50
	XPS test specimens CNWRA drawing 20-06002-01-081-005 machine d from Alloy 22 plate heat 2277-8-3175. Attached quote and CNWRA drawing 20-06002-01-081-005 Req: 03002082 QC Insp Required Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081 THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS." SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.							

6220 Culebra Road
San Antonio, TX 78238-5166

100987

Page: 2
Date Printed: 08/07/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510 <div>Authorized Signature(s)</div>						PO Total Amt:	\$858.50

6220 Culebra Road
San Antonio, TX 78238-5166

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Page: 1
Date Printed: 07/23/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
'23/03	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC Crevice corrosion test specimens 20-01402.571-027 machined from Alloy 22 plate		EA	08/22/03	08/22/03	20.0000	149.5000	\$2,990.00
	Req: 03001528 QC Insp Required							
	Prime Contract #: NRC0202012 AOP: 704-000 1.20		Priority: NONE 06002.01.081					
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							
	SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.							

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383903S

Page: 2
Date Printed: 07/23/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
07/23/03	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510 <div>Authorized Signature(s)</div>						PO Total Amt:	\$2,990.00

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383908S

Page: 1
Date Printed: 07/23/2003

Order To: HAYNES INTERNATIONAL, INC.
NORTHWOODS INDUSTRIAL PARK WEST
12241 F.M. 529
HOUSTON, TX 77041

509360

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: JOY Ph: 800-231-4548 Fax: 713-937-4596

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
'23/03	Jimmie Silvers	NET 30	SHIPPING POINT		MOTOR FREIGHT	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC Alloy C-22 plate, 1 inch thick, 2 feet wide and 2 feet long Req: 03001505 QC Insp Required Prime Contract #: NRC0202012 AOP: 704-000 1.20			PCS 08/08/03	08/08/03	2.0000	1,432.2000	\$2,864.40
2	MISC Alloy C-22 plate, 0.5 inch thick, 2 feet wide and 4 feet long Req: 03001505 QC Insp Required Prime Contract #: NRC0202012 AOP: 704-000 1.20			PCS 08/08/03	08/08/03	2.0000	1,463.0000	\$2,926.00
3	MISC Alloy C-22 plate, 0.5 inch thick, 6 inches wide and 2 feet long Req: 03001505 QC Insp Required Prime Contract #: NRC0202012 AOP: 704-000 1.20			PCS 08/08/03	08/08/03	1.0000	184.8000	\$184.80

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383908S**Page: 2
Date Printed: 07/23/2003Order To: HAYNES INTERNATIONAL, INC.
NORTHWOODS INDUSTRIAL PARK WEST
12241 F.M. 529
HOUSTON, TX 77041

509360

Contact: JOY Ph: 800-231-4548 Fax: 713-937-4596

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
07/23/03	Jimmie Silvers	NET 30	SHIPPING POINT		MOTOR FREIGHT	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							
	MILL TEST REPORT SHALL ACCOMPANY EACH LOT OF ITEMS SHIPPED. TEST REPORT SHALL BE IN THE FORM OF A PRODUCTION BATCH ANALYSIS OR LADLE ANALYSIS. CHEMICAL AND/OR PHYSICAL TEST DATA SHALL BE PROVIDED. MATERIAL SHALL BE IDENTIFIED BY HEAT NUMBER IF APPLICABLE.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510						PO Total Amt:	\$5,975.20
	_____ Authorized Signature(s)							

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383789S

Page: 1
Date Printed: 07/03/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
'03/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC Crevice corrosion test specimens 20-01402-571-027 machined from Alloy 22 plate		EA	07/18/03	07/18/03	20.0000	149.5000	\$2,990.00
	Req: 03000844 QC Insp Required							
	Prime Contract #: NRC0202012 AOP: 704-000 1.20					Priority: NONE 06002.01.081		
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
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	SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.							

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383789S

Page: 2
Date Printed: 07/03/2003

Order To: TEXAS TOOL MAKERS
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100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
03/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510 <hr/> Authorized Signature(s)						PO Total Amt:	\$2,990.00

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 366967M**Page: 1
Date Printed: 06/16/2003Order To: RBD ENTERPRISES, INC
563 S.W. 13TH ST. SUITE 201
BEND, OR 97702

504560

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: 541-330-0723 CARL STEINKE Ph: 541-330-0723 X310 Fax: 541-330-0991

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
16/03	Mary Hernandez 3803	NET 30	SHIP POINT		FEDP-1 COLLECT	YI-MING PAN/BLDG 57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700). *****							
1	MISC X-RAY PHOTOELECTRON SPECTROSCOPY ANALYSIS OF JOSEPHINITE AND A HAYNES NI-FE ALLOY, BOTH NON-TREATED AND ELECTROCHEMICALLY TREATED, TO DETERMINE THE THICKNESS, COMPOSITION, AND OXIDATION STATE OF THE SURFACE LAYER. TENTATIVE XPS ANALYSIS SCHEDULE JUNE 25 & 26 2003			EA 07/25/03	07/25/03	1.0000	2,400.0000	\$2,400.00
	Req: 639556							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
	QUALITY & TECHNICAL REQUIREMENTS: QUALITY AFFECTING PURCHASE. A QUALIFIED CNWRA STAFF MEMBER WILL SUPERVISE THE VENDOR STAFF TO OBTAIN DATA AND DOCUMENT RESULTS IN SCIENTIFIC NOTEBOOK NO. 539.							
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS							

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 366967M**Page: 2
Date Printed: 06/16/2003Order To: RBD ENTERPRISES, INC
563 S.W. 13TH ST. SUITE 201
BEND, OR 97702

504560

Contact: 541-330-0723 CARL STEINKE Ph: 541-330-0723 X310 Fax: 541-330-0991

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO			
6/16/03	Mary Hernandez	NET 30	SHIP POINT		FEDP-1 COLLECT	YI-MING PAN/BLDG 57			
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST	
	FOR RISK OF LOSS."								
	Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.								
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510							PO Total Amt:	\$2,400.00
	Authorized Signature(s)								



PURCHASE REQUISITION

PURCHASING

SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO.
6/11/03			639556

SUGGESTED OR PREVIOUS SUPPLIER

RBD Enterprises

CITY, STATE

Bend, OR 97702

ATTN:

Carl Steinke

PHONE

541/330-0723

FAX

541/330-0991

DELIVER TO

Yi-Ming Pan/bldg. 57

SHIP VIA

F.O.B.

TERMS

PURCHASING SELECTED SUPPLIER

SUPPLIER CODE

ATTN

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	1	EA	X-ray photoelectron spectroscopy analysis of Josephinite and a Haynes Ni-Fe alloy, both non-treated and electrochemically treated, to determine the thickness, composition, and oxidation state of the surface layer. Tentative XPS analysis schedule-- June 25 & 26, 2003.	20	06002.01	081	100	6/18/03	\$2,400.00
Quality & Technical Requirements: Quality affecting purchase. A qualified CNWRA staff member will supervise the vendor staff to obtain data and document results in Scientific Notebook No. 539.									
URGENT--PLEASE RUSH!!!!									

INTERNAL NOTES TO BUYER

Call Yi-Ming Pan with P.O. number.

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:

~~QAP 016~~
Q20

c INSPECTION CRITERIA

Results will be put in
CNWRA S/N No. 539.

d QA APPROVAL (IF REQUIRED)

DATE

DATE

BUYER SIGNATURE

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.

Yi-Ming Pan

6640

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

SEE INSTRUCTIONS ON REVERSE SIDE



563 SW 13th Street
Bend OR 97702

Phone Number 541-330-0723

Fax Number 541-330-0991

QUOTE

Quote #	SRI-060903-1
Date	06/09/03
RBD Rep.	Carl Steinke

Quote To:

Southwest Research Institute
Yi-Ming Pan

Terms: Net 30 days

Delivery: 45 days ARO

This quote is for use of RBD surface analysis services on (4) Fe-Ni polished surfaces using RBD's XPS and Scanning Auger instrument.

The analysis of each sample will include a wide-energy survey to determine surface elemental composition, followed by a high resolution scan on spectral features of interest to determine the chemical states of the elemental components.

Subsequently, angle-resolved XPS and sputter depth profiling will be used to determine the elemental composition of the passive film and film/substrate interface as a function of depth.

As time permits, Auger spectroscopy will be used to confirm the results of the XPS experiments.

Each sample needs to be cut to a size of at least 1.5cm x 1.5cm for the purpose of sample mounting.

Dr. Pan is planning to be present at RBD's facility for the two days of analysis.

Qty	Description	Unit Price	Ext. Price
2	Laboratory Rental and Analyst (daily rate, 7a-4p)	\$1,200.00	\$2,400.00
		SubTotal	\$2,400.00
		Total	\$2,400.00

UNLESS OTHERWISE NOTED SHIPPING EXPENSES ARE NOT INCLUDED IN THE QUOTE

Rate quote above is use of surface analysis services (equipment and analyst) per day, tentatively scheduled to occur during the week of June 23-27. Should the complete analysis take twelve hours or less, the services will be billed at a rate of \$200/hr instead of the daily rate.

Special Instructions:

07/09/03

Expiration Date

Carl Steinke

Carl Steinke

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

JUSTIFICATION FOR ITEMS ON PURCHASE REQUISITION NUMBER:

SUGGESTED VENDOR: (If Applicable) RBD Enterprises

Item: A

CNWRA staff is planning to use x-ray photoelectron spectroscopy (XPS) instrument to analyze the passive surface layer on Josephinite and a Haynes Ni-Fe alloy (heat EN6502-3-0981) after electrochemical treatments. The objective of this investigation is to determine the thickness, composition, and oxidation state of the passive layer under two different electrochemical conditions. The scope of work includes analysis of a total of six samples, two electrochemically treated and one non-treated samples for each material. For the four electrochemically treated samples, a wide-energy survey will be conducted to determine surface composition, followed by a high resolution scan for oxidation state identification. In addition, angle-resolved XPS and depth profiling will be used to determine the thickness of the passive layer. Both wide-energy survey and high resolution scan will be conducted on the non-treated samples in order to distinguish the passive film from the substrate.

In this investigation, CNWRA staff will visit the vendor to undertake the analysis effort. Under the guidance provided by CNWRA staff, the vendor staff will operate the instrument to acquire composition surveys, high-resolution scans, and depth profile measurements. CNWRA staff will then analyze the data and record the results in Scientific Notebook No. 539. The Haynes alloy with a known bulk composition, as documented in the scientific notebook, will serve as a blind sample to confirm chemical analysis accuracy in accordance with QAP-016.


SIGNATURE

6/11/2003
DATE

May 29, 2003

Yi-Ming Pan, Ph.D.
Senior Research Engineer
Center for Nuclear Waste Regulatory Analyses
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238

Note: For a total of six samples (four electrochemically treated and two not-treated), the total cost estimate will be \$7,200.00.

$$\begin{array}{rcl} \text{a)} & 1,462.50 \times 4 & = 5,850.00 \\ \text{b)} & 675.00 \times 2 & = 1,350.00 \\ & & \hline & & \$7,200.00 \end{array}$$

Dear Dr. Pan:

Listed below is our quote for XPS analysis of your surface treated Josephinite mineral samples. This quote is based upon the description of your samples and analysis needs from your recent conversations with Dr. Deborah Hess of our lab. This quote is for XPS analysis with you being present during the analysis, tentatively scheduled for June 17 and 18, 2003. Please check with us at least one week prior to these dates to confirm the schedule. We have assigned this work Evans Texas Job # 83881.

Measurements will be performed using a Physical Electronics 5500 X-ray Photoelectron Spectrometer. Data will be analyzed using PHI PC-Access and Multi-Pak software. Both paper copies and electronic copies of the data (in Microsoft Word format) will be provided. If necessary, we can provide the data as either ASCII or Excel formats, although we may not be able to give this to you during your visit. The latter tends to generate very large data files which will have to go on a CD. If data is needed in this format, it can always be sent you after your on-site visit.

The prices quoted include a surcharge for 48-hour turnaround, due to your requirement for being present during the analysis and taking the results with you when you leave.

Survey measurement to determine composition: \$337.50/measurement

High resolution measurements to determine oxidation state/chemical bonding: \$337.50/measurement

Please note: High resolution measurements are limited to 5-6 elements. The survey will be used to generate the composition table. Detection limit is generally 0.5 atom %, although H and He will not be measured. The high resolution spectra will be curve fitted to provide information on oxidation state (for metals) and chemical bonding environment (for carbon, oxygen, etc.).

Depth profile measurement to determine film thickness: \$787.50/profile
(limited to profiling 5-6 elements to 500 Angstrom depth, additional cost if film is thicker)

Total cost per sample per location analyzed: \$1,462.50

Additional Information:

Please note that the units on the plot of the depth profile are concentration vs. depth. The depth is relative to sputtering a SiO₂ film. Your bimetallic film (FeNi) may or may not sputter at the same rate as SiO₂. In the latter case, the depth scale will indicate a thickness that can be used for relative comparison between samples (if the samples are the same nominal composition), but may not be absolutely accurate. Furthermore, XPS depth profiles are usually done on films that are thicker than 100 Angstroms; the data from films that are thinner will suffer from poor depth resolution.

A few other factors will help both us complete the work in your desired timeframe.

1. The samples will need to be sent to Evans Texas at least 1 full day prior (or 2 days, if feasible) to your on-site visit. We will use this time to prepare the samples onto the appropriate sample stages and to let the samples outgas sufficiently for good quality measurements. You will not be charged for this time. Please note- we would appreciate it if you could supply us with an MSDS for this material, or at least your written assurance that the materials are not hazardous.
2. Data collection will begin at 8:30 am and will likely conclude (unless you stop early) by 4:00 pm. It may be possible to extend the time to 4:30-5:00 pm on one of the two days that you are on-site.
3. It will take some time to remove the sample(s) from the chamber. So unless you need to take the samples with you the same day, we suggest you let us send them to you by FedEx.
4. We will need a purchase order prior to your on-site visit.
5. It would be very helpful if you can bring a sample of the substrate (mineral) that does not have a deposited film so that we have an appropriate reference. It should only be necessary to obtain survey and high-resolution spectra from this sample (no depth profiling required). The cost for these reference analyses will be \$675.

If any of the above information needs more clarification, please do not hesitate to write or call. We look forward to working with you.

Sincerely,

Scott Baumann
Managing Partner

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383674S

Page: 1
Date Printed: 06/13/2003

103431

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: SONNY ROGERS Ph: 662-4516 Fax: 662-4558

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
13/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST

* CONFIRMATION *								

This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC C-22 WELD SPECIMENS CNWRA DRAWING 20-06002-01-081-001		EA	06/30/03	06/30/03	4.0000	975.0000	\$3,900.00
Req: 624836								
Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081								
2	MISC DELIVERY OF MACHINED SPECIMENS QUALITY & TECHNICAL REQUIREMENT: SPECIMENS MACHINED AS PER CNWRA DRAWING 20-06002-01-081-001. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20-06002-01-081-001 IS REQUIRED. SPECIMENS CUT FROM ALLOY 22 PLATE PER 20-06002-01-081-002.		EA	06/30/03	06/30/03	1.0000	90.0000	\$90.00
Req: 624836								
Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081								
THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.								
AGREED & ACCEPTED: _____								

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383674S

Page: 2
Date Printed: 06/13/2003

Order To: INDUSTRIAL MECHANICAL INC.
5797 DIETRICH ROAD
BOX 200350
SAN ANTONIO, TX 78286

103431

Contact: SONNY ROGERS Ph: 662-4516 Fax: 662-4558

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO				
06/13/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN B57				
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST		
	<p>DATE: _____</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.</p> <p>Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possiblility of audits, source inspections, or surveillances. Any special documentation requirements shll be specified in the purchaes order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.</p> <p>Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510</p>									
							PO Total Amt:	\$3,990.00		

6220 Culebra Road
San Antonio, TX 78238-5166

103431

Page: 3
Date Printed: 06/13/2003

Order To: INDUSTRIAL MECHANICAL INC.
5797 DIETRICH ROAD
BOX 200350
SAN ANTONIO, TX 78286

Contact: SONNY ROGERS Ph: 662-4516 Fax: 662-4558

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
'13/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Authorized Signature(s)							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

5/21/03

✓624836

SUGGESTED OR PREVIOUS SUPPLIER

Industrial Mechanical Company

CITY, STATE

DELIVER TO

Darrell Dunn/bldg. 57

SHIP VIA

PURCHASING SELECTED SUPPLIER

ATTN:

A.E. Sonny Rogers, Jr.

PHONE

662-4596

FAX

662-4503

F.O.B.

SUPPLIER CODE

ATTN

TERMS

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	4	EA	C-22 weld specimens CNWRA drawing 20-06002-01-081-001	20	06002.01	.081	100	6/16/03	337.50
B	1	EA	Delivery of machined specimens	20	06002.01	.081	100	6/16/03	90.00
Quality & Technical Requirements: Specimens machined as per CNWRA drawing 20-06002-01-081-001. Dimensional inspection per dimensions and tolerances identified in CNWRA drawing 20-06002-01-081-001 is required. Specimens cut from alloy 22 plate per 20-06002-01-081-002.									
Attached drawings and quotes.									
P.I to inspect per QAP-016 upon receipt. rec									

INTERNAL NOTES TO BUYER

Call Darrell Dunn at x6090 with P.O. # when issued.

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: Q11, Q20

c INSPECTION CRITERIA

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.

Darrell Dunn

6090

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

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383579S**Page: 1
Date Printed: 05/29/2003Order To: WELDERS SUPPLY CO.
5406 JACKWOOD
SAN ANTONIO, TX 78238

107287

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: DONALD Ph: 684-0232 Fax: 684-1445

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
05/29/03	Jimmie Silvers	NET 10	DESTINATION		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC 3/32" DIA X 36" LONG BARE ELECTRODES NICRMO-10 FILLER METAL QUALITY & TECHNICAL REQUIREMENTS: QUALITY AFFECTING PURCHASE. MATERIAL MUST MEET THE COMPOSITIONAL SPECIFICATIONS SFA A5.14 AWS CLASSIFICATION ERNICRMO-10 FOR WELD FILLER METAL. VENDOR WILL PROVIDE A COPY OF THE MILL TEST REPORT CONTAINING FOR THE PLATE WITH THE HEAT NUMBER. AN INDEPENDANT CHEMICAL ANALYSES OF THE MATERIAL WILL BE PERFORMED. ACCEPTANCE OF THE MATERIAL WILL BE DETERMINED BY THE OUTCOME OF THE INDEPENDANT CHEMICAL ANALYSES. Req: 624837 QC Insp Required Prime Contract #: NRC0202012 AOP: 704-000 1.20 SWRI QA RECEIVING INSPECTION CRITERIA: PI TO INSPECT PER QAP-016 UPON RECEIPT. THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____	LB	06/03/03	06/03/03	20.0000	19.4500	\$389.00	

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383579S**Page: 2
Date Printed: 05/29/2003Order To: WELDERS SUPPLY CO.
5406 JACKWOOD
SAN ANTONIO, TX 78238

107287

Contact: DONALD Ph: 684-0232 Fax: 684-1445

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
05/29/03	Jimmie Silvers	NET 10	DESTINATION		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							
	MILL TEST REPORT SHALL ACCOMPANY EACH LOT OF ITEMS SHIPPED. TEST REPORT SHALL BE IN THE FORM OF A PRODUCTION BATCH ANALYSIS OR LADLE ANALYSIS. CHEMICAL AND/OR PHYSICAL TEST DATA SHALL BE PROVIDED. MATERIAL SHALL BE IDENTIFIED BY HEAT NUMBER IF APPLICABLE.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510						PO Total Amt:	\$389.00
	<div>Authorized Signature(s)</div>							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 5/21/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 624837
------------------------------------	------------	-----------------------	---------------------------

SUGGESTED OR PREVIOUS SUPPLIER Welders Supply	DELIVER TO Darrell Dunn/bldg. 57	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN:	F.O.B.	SUPPLIER CODE	ATTN
PHONE 684-0232	FAX	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
	20	lb	3/32" dia x 36" long bare electrodes ER NiCrMo-10 filler metal	20	06002.01	.081	100	5/30/03	21.49
Quality & Technical Requirements: Quality affecting purchase.									
Material must meet the compositional specifications SFA A5.14 AWS classification ERNiCrMo-10 for weld filler metal. Vendor will provide a copy of the mill test report containing for the plate with the heat number.									
An independent chemical analyses of the material will be performed. Acceptance of the material will be determined by the outcome of the independent chemical analyses.									
PI to inspect per QAP-016 upon receipt									

INTERNAL NOTES TO BUYER Call Darrell Dunn at x6090 with P.O.# when issued.	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
--	----------------------------------	-------

1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b Q A CODES: Q4 c INSPECTION CRITERIA d QA APPROVAL (IF REQUIRED) DATE Mark R. Ernstom 5/21/03	3. SOURCING NOTES IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE Darrell Dunn EXT. NO. 6090 DEPT / DIVISION APPROVAL 5/21 DATE ADMIN. APPROVAL DATE	4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
--	---	--	---

CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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Purchase Order # 370238N

Detail of Line # 1

Acct ID	Proj ID	Org ID	Cst Pct
705-000	06002.01.081	1.20	100.00%

Full Description:

SERVICE PURCHASE ORDERCHEMICAL ANALYSES OF ER NiCrMo-10 FILLER METAL THIS IS ALL IN ACCORDANCE WITH LETTER DATED JUNE 11, 2003 AND THE SPECIFICATIONS REQUIREMENTS IN AWS A5.14 AND A COPY OF THE MILL REPORT.

Deliver to:

DARRELL DUNN X6090

PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

PURCHASING

REQUISITION DATE 6/12/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ 839557
DELIVER TO Darrell Dunn/bldg. 57		PURCHASING SELECTED SUPPLIER	
SHIP VIA			
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

[illegible]

INTERNAL NOTES TO BUYER		SPECIAL INSTRUCTIONS TO SUPPLIER		TOTAL		
Call D. Dunn at x6090 when P.O.# is issued.						
1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input type="checkbox"/> YES <input type="checkbox"/> NO		2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b Q A CODES: Q20, Q12 c INSPECTION CRITERIA <i>Receiving inspection per QAP-016</i> d QA APPROVAL (IF REQUIRED) <i>[Signature]</i> DATE 6/12/03		3. SOURCING NOTES 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 IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE Darrell Dunn EXT. NO. 6090 DEPT / DIVISION APPROVAL <i>[Signature]</i> DATE 6/12/03 ADMIN. APPROVAL <i>[Signature]</i> DATE		4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input checked="" type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
CONTRACT REVIEW APPROVAL		DATE		DATE		
		BUYER SIGNATURE				

SEE INSTRUCTIONS ON REVERSE SIDE



CNWRA *A center of excellence in earth
sciences and engineering*

6220 Culebra Road · San Antonio · Texas, U.S.A. 78228-5166

June 11, 2003

Darrell S. Dunn
Bldg. 57
Phone: (210) 522-6090
Fax: (210) 522-5184
E-Mail: ddunn@swri.org

Frank Donmez
Staveley Services Materials Testing

Dear Mr. Donmez,

Enclosed please find the heat of Alloy 622 weld filler metals heat numbers WN813 (3/32" diameter) submitted for chemical analyses. Per our previous phone conversation, I need to have the specimen analyzed for the Ni, Cr, Mo, W, Fe, C, Co, Cu, Mn, P, S, Si, and V. According to the vendor, the material heats are within the chemical composition ranges specified in AWS A5.14 ERNiCrMo-10.

The specified chemical composition is provided below.

Cr: 20.0 - 22.5
Mo: 12.5 - 14.5
W: 2.5 - 3.5
Fe: 2.0 - 6.0
C: 0.015 max
Co: 2.5 max
Mn: 0.50 max
P: 0.02 max
S: 0.010 max
Si: 0.08 max
V: 0.35 max
Cu: 0.50
Others Elements Total: 0.5
Ni: balance

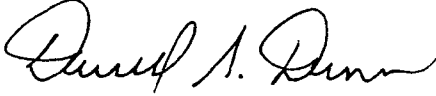
A copy of the specification requirements in AWS A5.14 and a copy of the mill test report are included.

The chemical analyses performed by Staveley Services Materials Testing should provide the chemical composition of the alloy heats and should specify the heat number and product form of

the material. The analyses should conclusively determine if the heats submitted are within the specifications listed in AWS A5.14 for ERNiCrMo-10. Any discrepancy between the chemical analyses performed by Staveley Services Materials Testing and the specifications of AWS A5.14 for ERNiCrMo-10 should be clearly identified.

Please call me if you have any questions. Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "Darrell S. Dunn". The signature is fluid and cursive, with the first name "Darrell" being more prominent and the last name "Dunn" following in a similar style.

Darrell S. Dunn

Table 1 (Continued)

Weight-Percent ^{a,b}																		
AWS Classification ^m	UNS Number ^c	C	Mn	Fe	P	S	Si	Cu	Ni ^d	Co	Al	Ti	Cr	Nb plus Ta	Mo	V	W	Other Elements Total
ERNiCrMo-1	N06007	0.05	1.0 to 2.0	18.0 to 21.0	0.04	0.03	1.0	1.5 to 2.5	Rem	2.5	—	—	21.0 to 23.5	1.75 to 2.50	5.5 to 7.5	—	1.0	0.50
ERNiCrMo-2	N06002	0.05 to 0.15	1.0	17.0 to 20.0	0.04	0.03	1.0	0.50	Rem	0.5 to 2.5	—	—	20.5 to 23.0	—	8.0 to 10.0	—	0.2 to 1.0	0.50
ERNiCrMo-3 ^k	N06625	0.10	0.50	5.0	0.02	0.015	0.50	0.50	58.0 min.	—	0.40	0.40	20.0 to 23.0	3.15 to 4.15	8.0 to 10.0	—	—	0.50
ERNiCrMo-4	N10276	0.02	1.0	4.0 to 7.0	0.04	0.03	0.08	0.50	Rem	2.5	—	—	14.5 to 16.5	—	15.0 to 17.0	0.35	3.0 to 4.5	0.50
ERNiCrMo-7	N06455	0.015	1.0	3.0	0.04	0.03	0.08	0.50	Rem	2.0	—	0.70	14.0 to 18.0	—	14.0 to 18.0	—	0.50	0.50
ERNiCrMo-8	N06975	0.03	1.0	Rem	0.03	0.03	1.0	0.7 to 1.2	47.0 to 52.0	—	—	0.70 to 1.50	23.0 to 26.0	—	5.0 to 7.0	—	—	0.50
ERNiCrMo-9	N06985	0.015	1.0	18.0 to 21.0	0.04	0.03	1.0	1.5 to 2.5	Rem	5.0	—	—	21.0 to 23.5	0.50	6.0 to 8.0	—	1.5	0.50
ERNiCrMo-10	N06022	0.015	0.50	2.0 to 6.0	0.02	0.010	0.08	0.50	Rem	2.5	—	—	20.0 to 22.5	—	12.5 to 14.5	0.35	2.5 to 3.5	0.50
ERNiCrMo-11	N06030	0.03	1.5	13.0 to 17.0	0.04	0.02	0.80	1.0 to 2.4	Rem	5.0	—	—	28.0 to 31.5	0.30 to 1.50	4.0 to 6.0	—	1.5 to 4.0	0.50
ERNiCrMo-13	N06059	0.010	0.5	1.5	0.015	0.005	0.10	—	Rem	0.3	0.1 to 0.4	—	22.0 to 24.0	—	15.0 to 16.5	—	—	0.50

(continued)

ANSI/AWS
A 5.14 / A 5.14 m-97

THE LEADING MANUFACTURER OF STAINLESS STEEL, NICKEL ALLOYS AND WELDING PRODUCTS
EXECUTIVE OFFICES: 370 FRANKLIN TURNPIKE, MAHWAH, NJ 07430-2259 PHONE 201-529-0900 FAX 201-529-1074 E-MAIL: sales@techalloy.com

UNION, IL
UNION, IL (WELDING)

815-823-2131 FAX 815-923-2128
815-823-2131 FAX 815-923-7242



TECHALLOY Company, Inc.
Arcelor Group

BALTIMORE, MD
HOUSTON, TX
PERRIS, CA

410-633-9300 FAX 410-633-2033
713-466-1000 FAX 713-466-7425
909-657-2105 FAX 909-943-6061

BALTIMORE WELDING DIVISION
2310 CHESAPEAKE AVE.
TEL: 410-633-8300

BALTIMORE, MD 21222-4098
FAX: 410-633-2033

CERTIFIED MATERIAL TEST REPORT

SOLD
TO

SHIP
TO

CUSTOMER'S PO NO.	TYPE OF CERT Actual/Lot	CUSTOMER	TECHALLOY ORDER NO.	WORK ORDER 4013936	DATE SHIPPED 0/00/00
SPECIFICATIONS: AWS/SFA 5.14 CERTIFIED BY CWB					

ITEM DESCRIPTION		
DESCRIPTION	SPEC. CLASS	HEAT
Techalloy 622	ERNICRMO10	WN813
.0938 36"Printed	QTY SHIP	SHIP FROM 006

CHEMICAL ANALYSIS						
NI	C	MN	P	S	SI	CR
57.50	.003	.34	.003	.001	.02	22.24
MO	FE	V	CU	CO	W	
13.70	2.37	.01	.01	.41	3.13	

MECHANICAL PROPERTIES							
AS WELDED PROPERTIES:							
POST WELD HEAT TREAT PROPERTIES:							

I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.

Very truly yours,
TECHALLOY

Perry Carney
AUTHORIZED SIGNATURE

No requisition is available for the record you have requested.
639551

Purchase Order # 378926Q

Vendor: IHI SOUTHWEST
TECHNOLOGIES, INC.

Order Date: 05/13/03

Due Date: 05/16/03

<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>	
1	1	0	0		N/A	\$440.00	SERVICE PURCHASE ORDER
Total						\$440.00	

NOTES: (none)

FOOTNOTES: P8 P9 P10 P12 P90 Q20 Q12



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTETM

DEPARTMENT

REQUISITION DATE 5/9/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 639551
DELIVER TO D. Dunn/bldg. 57		PURCHASING SELECTED SUPPLIER	
SHIP VIA			
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

SUGGESTED OR PREVIOUS SUPPLIER

IHI Southwest

CITY, STATE

ATTN:

Fred Anderson

PHONE

256-4108

FAX

521-2311

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	i	EA	Radiographic inspection of Alloy 22						
			weld	20	06002.01.	081	100	5/16/03	440.00
			Quality & Technical Requirements: Quality affecting item. Test procedures must be compliant						
			with ASME code. NDE certifications required for individuals performing and reviewing radiographic						
			inspection.						

INTERNAL NOTES TO BUYER

Call Darrell Dunn at x6090 with P.O. #

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 CONSUMABLE
b ☐ G-2 DELIVERABLE
c ☐ G-3 ACCOUNTABLE / REPORTABLE
d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?
☐ YES
☒ NO

2. QUALITY ASSURANCE? ☒ YES ☐ NOa ASL REQUIRED? ☒ YES ☐ NOb QA CODES: **Q20, Q12**

c INSPECTION CRITERIA

RECEIVING INSPECTION per QAP-016.

d QA APPROVAL (IF REQUIRED)

DATE

Dunn Malute 5/9/2003

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.

Darrell Dunn
DEPT. / DIVISION APPROVAL

DATE

ADMIN. APPROVAL

DATE

6090**5/9/03**

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

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 359368K

Page: 1
Date Printed: 06/13/2003

Order To: ANAEROBE SYSTEMS
15906 CONCORD CIRCLE
MORGAN HILL, CA 95037

506523

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: VICKIE Ph: 408-782-7557 Fax: 408-782-3031

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/12/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YANG B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * C O N F I R M A T I O N * *****							
	This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC AS-888B MODIFIED BAAR'S BROTH, 10 TUBES PER PKG, 9ML PER TUBE, DESULFOVIBRIO		PK	07/07/03	06/12/03	20.0000	15.8500	\$317.00
	Req: 639555							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
2	MISC AS-889B NUTRIENT BROTH, 1.5% NACl, 10 TUBES PER PKG, VIBRIO, 9ML PER TUBE		PK	07/07/03	06/12/03	24.0000	13.8500	\$332.40
	Req: 639555							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED							

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 359368K**Page: 2
Date Printed: 06/13/2003Order To: ANAEROBE SYSTEMS
15906 CONCORD CIRCLE
MORGAN HILL, CA 95037

506523

Contact: VICKIE Ph: 408-782-7557 Fax: 408-782-3031

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/12/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YANG B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							
	SUPPLIER SHALL SUPPLY A CERTIFICATE OF COMPLIANCE WITH THE PURCHASED ITEMS. INVOICE WILL NOT BE PAID UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN RECEIVED.							
	MATERIAL SAFETY DATA SHEET(S) (MSDS) MUST BE SUPPLIED UPON FIRST SHIPMENT OF THE PRODUCT. THE CONTENT OF THE MSDS IS REQUIRED TO BE IN COMPLIANCE WITH 29CFR 1910. 1200(9)							
	SELLER IS TO PROVIDE SUFFICIENT DATA (DRAWINGS, CATALOGS, PRODUCT DATA SHEETS, ETC) TO CONDUCT INSPECTION AND TEST.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510							
	<div>Authorized Signature(s)</div>						PO Total Amt:	\$649.40



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO.
6/11/03			✓ 639555

SUGGESTED OR PREVIOUS SUPPLIER	DELIVER TO	PURCHASING SELECTED SUPPLIER	
Anaerobe Systems	Lietai Yang/bldg. 57		
CITY, STATE	SHIP VIA		
Morgan Hill, CA			
ATTN:	F.O.B.	SUPPLIER CODE	ATTN
Jeremy McDonald			
PHONE	TERMS	PHONE	FAX
408/782-7557n			
FAX			
408/782-2031			

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	20	Pkg	AS-888B modified Baar's broth=10 tubes per pkg, 9 ml per tube, desulfovibrio	20	06002.01.	081	100	6/12/03	15.85
B	34	Pkg	AS-889B nutrient broth, 1.5% NaCl, 10 tubes per pkg, vibrio, 9 ml per tube	20	06002.01.	081	100	6/12/03	13.85
			Quality & technical Requirements:						
			Certificate of compliance must be provided.						
			Acceptance Test will be conducted in The CNUWA Lab by Ben and will consist of successfully culturing the microbes of interest. Ben						

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
URGENT, PLEASE RUSH, CALL L. YANG WITH P.O.#		

1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input type="checkbox"/> YES <input type="checkbox"/> NO	2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b QA CODES: Q1, Q7, Q13 product data sheet only c INSPECTION CRITERIA SEE ABOVE d QA APPROVAL (IF REQUIRED) DATE [Signature] 6/12/03	3. SOURCING NOTES 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 IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE Lietai Yang EXT. NO. 2483 DEPT. / DIVISION APPROVAL [Signature] DATE 6/11/03 ADMIN. APPROVAL [Signature] DATE 6/12/03	4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
---	---	---	--

CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE

6220 Culebra Road
San Antonio, TX 78238-5166

Page: 1
Date Printed: 06/13/2003

Order To: ANAEROBE SYSTEMS
15906 CONCORD CIRCLE
MORGAN HILL, CA 95037

506523

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: NICOLLE Ph: 408-782-7557 Fax: 408-782-3031

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
06/13/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YANG B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700). *****							
1	MISC AS-888B MODIFIED BAAR'S BROTH, 10 TUBES PER PKG, 9 ML PER TUBE, DESULFOVIBRIO Req: 624842 Prime Contract #: NRC0202012 AOP: 704-000 1.20		PK	06/17/03	06/12/03	12.0000	15.8500	\$190.20
2	MISC AS-888A MODIFIED BAAR'S AGAR, 4 PLATES PER PKG DESULFOVIBRIO Req: 624842 Prime Contract #: NRC0202012 AOP: 704-000 1.20		PK	06/17/03	06/12/03	27.0000	7.4000	\$199.80
3	MISC AS-889B NUTRIENT BROTH, 1.5% NAC1, 10 TUBES PER PKG, 9 ML PER TUBE Req: 624842 Prime Contract #: NRC0202012 AOP: 704-000 1.20		PK	06/17/03	06/12/03	12.0000	13.8500	\$166.20
4	MISC AS-889A NUTRIENT AGAR WITH 1.5% NAC1 4 PLATES PER PKG,		PK	06/17/03	06/12/03	27.0000	7.4000	\$199.80

6220 Culebra Road
San Antonio, TX 78238-5166

Page: 2
Date Printed: 06/13/2003

Order To: ANAEROBE SYSTEMS
15906 CONCORD CIRCLE
MORGAN HILL, CA 95037

506523

Contact: NICOLLE Ph: 408-782-7557 Fax: 408-782-3031

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
07/13/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YANG B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	VIBRIO							
	Req: 624842							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							
	SUPPLIER SHALL SUPPLY A CERTIFICATE OF COMPLIANCE WITH THE PURCHASED ITEMS. INVOICE WILL NOT BE PAID UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN RECEIVED.							
	MATERIAL SAFETY DATA SHEET(S) (MSDS) MUST BE SUPPLIED UPON FIRST SHIPMENT OF THE PRODUCT. THE CONTENT OF THE MSDS IS REQUIRED TO BE IN COMPLIANCE WITH 29CFR 1910. 1200(9)							
	SELLER IS TO PROVIDE SUFFICIENT DATA (DRAWINGS, CATALOGS, PRODUCT DATA SHEETS, ETC) TO CONDUCT INSPECTION AND TEST.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510							

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 359375K**Page: 3
Date Printed: 06/13/2003Order To: ANAEROBE SYSTEMS
15906 CONCORD CIRCLE
MORGAN HILL, CA 95037

506523

Contact: NICOLLE Ph: 408-782-7557 Fax: 408-782-3031

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/13/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YANG B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Attention: Accounts Payable San Antonio, TX 78228-0510						PO Total Amt:	\$756.00
	<div>Authorized Signature(s)</div>							

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383597S

Page: 1
Date Printed: 06/03/2003

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: MIKE MILLER Ph: 713-590-2531 Fax: 713-928-2465

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
03/03	Jimmie Silvers	NET	SHIPPING POINT		BEST WAY	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * *****							
	This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC GAS TUNGSTEN ARC WELD ALLOY C-22 PLATES PER OFFENHAUSER WPS P44-13			JOB 06/27/03	06/27/03	1.0000	566.0000	\$566.00
	Req: 624835							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
	SWRI QA RECEIVING INSPECTION CRITERIA: PI TO INSPECT PER QAP-016 UPON RECEIPT.							
	QUALITY AND TECHNICAL REQUIREMENTS: SWRI WILL SUPPLY ALLOY 22 PLATES TO BE WELDED. WELD WILL BE PERFORMED IN ACCORDANCE WITH OFFENHAUSER WPS P44-13 USING ERNICRMO-10 FILLER METAL SUPPLIED BY SWRI. PENETRANT TESTING OF THE ROOT PASS SHALL BE PERFORMED BY QUALIFIED PERSONNEL. DOCUMENTATION OF THE PENETRANT TEST RESULTS AND ALL PERSONNEL QUALIFICATIONS WILL BE PROVIDED. OFFENHAUSWER WILL NOTIFY SWRI OF ANY REPORTABLE INDICATIONS. REPAIRS SHALL NOT BE PERFORMED WITHOUT APPROVAL FROM SWRI. COMPLETED WELD WILL BE INSPECTED USING RT FROM A SUPPLIER ON THE SWRI ASL. RESULTS OF THE RT WILL BE USED TO DETERMINE ACCEPTABILITY OF THE COMPLETED WELD. CNWRA QA STAFF WILL BE NOTIFIED OF RESULTS OF RT INSPECTION. ALL INDICATIONS FROM RT INSPECTION WILL BE DOCUMENTED IN SCIENTIFIC NOTEBOOK #579.							
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383597S**Page: 2
Date Printed: 06/03/2003Order To: OFFENHAUSER COMPANY INC
2201 TELEPHONE RD.
HOUSTON, TX 77223

512241

Contact: MIKE MILLER Ph: 713-590-2531 Fax: 713-928-2465

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/03/03	Jimmie Silvers	NET	SHIPPING POINT		BEST WAY	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS." Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149. Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510							
							PO Total Amt:	\$566.00

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383597S**Page: 3
Date Printed: 06/03/2003Order To: OFFENHAUSER COMPANY INC
2201 TELEPHONE RD.
HOUSTON, TX 77223

512241

Contact: MIKE MILLER Ph: 713-590-2531 Fax: 713-928-2465

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/03/03	Jimmie Silvers	NET	SHIPPING POINT		BEST WAY	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Authorized Signature(s)							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 5/21/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ 624835
DELIVER TO Darrell Dunn/bldg. 57		PURCHASING SELECTED SUPPLIER	
SHIP VIA			
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

SUGGESTED OR PREVIOUS SUPPLIER

Offenhauser Company

CITY, STATE

Houston, TX

ATTN:

Pete Blackburn

PHONE

713/590-2531

FAX

713/928-2465

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	1	EA	Gas tungsten arc weld Alloy C-22 plates per Offenhauser WPS P44-13	20	06002.01	.081	100	6/27/03	400.00
			Quality and Technical Requirements: SwRI will supply Alloy 22 plates to be welded. Weld will be performed in accordance with Offenhauser WPS P44-13 using ERNiCrMo-10 filler metal supplied by SwRI. Penetrant testing of the root pass shall be performed by qualified personnel. Documentation of the penetrant test results and all personnel qualifications will be provided. Offenhauser will notify SwRI of any reportable indications. Repairs shall not be performed without approval from SwRI. Completed weld will be inspected using RT from a supplier on the SwRI ASL. Results of the RT will be used to determine acceptability of the completed weld. CNWRA QA staff will be notified of results of RT inspection. All indications from RT inspection will be documented in Scientific Notebook #579.						
			P.I. to inspect per QAP-016 upon receipt						

INTERNAL NOTES TO BUYER

Call Darrell Dunn with P.O. # when issued.

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: Q20

c INSPECTION CRITERIA

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.

Darrell Dunn

6090

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

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 351243J

Page: 1
Date Printed: 04/24/2003

Order To: OFFENHAUSER COMPANY
2201 TELEPHONE RD.
HOUSTON, TX 77223

512241

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: Pete Ph: 713-590-2531 Fax: 713-928-2465

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
04/24/03	Jesse Lozano	NET	SHIPPING POINT		BEST WAY	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC GAS TUNGSTEN ARC WELD ALLOY C-22 PLATES PER OFFENHAUSER WPS P44-13 QUALITY AND TECHNICAL REQUIREMENTS: WELD WILL BE PERFORMED IN ACCORDANCE WITH OFFENHAUSER WPS P44-13 USING ERNCRMO-10 FILLER METAL SUPPLIED BY SWRI. PENETRANT TESTING OF THE ROOT PAS SHALL BE PERFORMED BY QUALIFIED PERSONNEL. DOCUMENTATION OF THE PENETRANT TEST RESULTS AND ALL PERSONNEL QUALIFICATIONS WILL BE PROVIDED. OFFENHAUSER WLL NOTIFY SWRI OF ANY REPORTABLE INDICATIONS. REPAIRS SHALL NOT BE PERFORMED WITHOUT APPROVAL FROM SWRI. SWRI WILL SUPPLY ALLOY 22 PLATES TO BE WELDED. THIS IS A PRACTICE WELD PIECE FOR THE PURPOSE OF DETERMINING THE CAPABILITY OF OFFENHAUSER COMPANY. THE RESULTS OF THIS WELD OF ALLOY C-22 MATERIAL WIHT A DOUBLE-J GROOVE JOINT WILL BE EVALUATED USING RADIOGRAPHIC TESTING. THE COMPLETED WELD WILL NOT BE USED TO PRODUCE SPECIMENS FOR CORROSION OR MECHANICAL PROPERTY TESTS. Req: 639544 Prime Contract #: NRC0202012 AOP: 704-000 1.20 SWRI QA RECEIVING INSPECTION CRITERIA: QAP-016 THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.	EA	04/29/03	04/29/03	1.0000	200.0000	\$200.00	

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 351243J**Page: 2
Date Printed: 04/24/2003Order To: OFFENHAUSER COMPANY
2201 TELEPHONE RD.
HOUSTON, TX 77223

512241

Contact: Pete Ph: 713-590-2531 Fax: 713-928-2465

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
04/24/03	Jesse Lozano	NET	SHIPPING POINT		BEST WAY	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>AGREED & ACCEPTED: _____</p> <p>DATE: _____</p> <p>Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510</p>							
							PO Total Amt:	\$200.00

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 351243J

Page: 3
Date Printed: 04/24/2003

Order To: OFFENHAUSER COMPANY
2201 TELEPHONE RD.
HOUSTON, TX 77223

512241

Contact: Pete Ph: 713-590-2531 Fax: 713-928-2465

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
04/24/03	Jesse Lozano	NET	SHIPPING POINT		BEST WAY	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Authorized Signatures							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 4/7/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 639544
SUGGESTED OR PREVIOUS SUPPLIER Offenhauser Company		PURCHASING SELECTED SUPPLIER	
CITY, STATE Houston, TX		SHIP VIA	
ATTN: Pete Blackburn		F.O.B.	SUPPLIER CODE
PHONE 713/590-2531	FAX 713/928-2465	TERMS	PHONE
			FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	1	EA	Gas Tungsten arc weld Alloy C-22 plates per Offenhauser WPS P44-13	20	06002.01.	081	100	4/25/03	200.00
Quality & Technical Requirements: Weld will be performed in accordance with Offenhauser WPS P44-13 using ERNiCrMo-10 filler metal supplied by SwRI. Penetrant testing of the root pass shall be performed by qualified personnel. Documentation of the penetrant test results and all personnel qualifications will be provided. Offenhauser will notify SwRI of any reportable indications. Repairs shall not be performed without approval from SwRI. SwRI will supply Alloy 22 plates to be welded. <i>This is a PRACTICE WELD PIECE FOR THE PURPOSE OF DETERMINING THE capability of Offenhauser Company. The results of this weld of Alloy C-22 material with a double-J groove joint will be evaluated using radiographic testing. The completed weld will not be used to produce specimens for corrosion or mechanical property tests.</i>									

INTERNAL NOTES TO BUYER

Please call D. Dunn at x6090 when P.O. # is issued.

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

RECEIVING INSPECTION
per QAP-016.

d QA APPROVAL (IF REQUIRED)

DATE

Dunn/Malento 4/8/2003

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.

Darrell Dunn

6090

DEPT. / DIVISION APPROVAL

DATE

ADMIN. APPROVAL

DATE

4/8/03

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

Fax
Phone (713) 928-2465
(713) 928-2961
(800) 228-4811**OFFENHAUSER COMPANY**2201 TELEPHONE RD.
P.O. BOX 230068
HOUSTON, TX, 77223

Fax Transmittal

To: Southwest Research Institute**DATE : 03/06/2003****Attn: Darell Dunn****Fax #: (210) 522-5184****From: Pete Blackburn****Number of Pages Being Sent Including This Cover Letter:****14****Message / Comments:**

Labor only to fit and weld customer supplied C-22 plate. Customer shall also supply all filler metal required to complete order. No x-ray, normal shop clean up. 100% PT of root pass. Welded from one side only with customer supplied bevels.

2 pcs 1" plate x 3" wide x 24" long
Welded GTAW only.

\$283.00 each

2 pcs 1" plate x 3" wide x 24" long
Welded GTAW/GMAW.

\$248.00 each

Please see attached U stamp and WPS and PQR

Please call if you have any questions.

Purchase Order # 370226N**Detail of Line # 1**

Acct ID	Proj ID	Org ID	Cst Pct
705-000	06002.01.081	1.20	100.00%

Full Description:

SERVICE PURCHASE ORDERPENETRANT TEST ROOT PASS OF ALLOY 22 WELD QUALITY & TECHNICAL REQUIREMENTS: QUALITY AFFECTING ITEM TEST PROCEDURES MUST BE COMPLIANT WITH SECTION V OF THE ASME CODE. NDE CERTIFICATIONS ARE REQUIRED FOR THE INDIVIDUALS PERFORMING PENETRANT EXAMINATIONS AND REVIEWING THE EXAMINATION RECORDS. CERTIFICATIONS NEEDED ON ALL MATERIALS USED.

Deliver to:

DARRELL DUNN X6090



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 2/13/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 637650
SUGGESTED OR PREVIOUS SUPPLIER IHI Southwest		PURCHASING SELECTED SUPPLIER	
CITY, STATE		SHIP VIA	
ATTN: Fred Anderson		ATTN	
PHONE 256-4108		PHONE	
FAX 521-2311		FAX	

DELIVER TO D. Dunn/bldg. 57
SHIP VIA
F.O.B.
TERMS

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
<u>A</u>	1	EA	Penetrant test root pass of Alloy 22 weld	20	06002	01.081	100	2/14/03	200.00
Quality & Technical Requirements: Quality affecting item test procedures must be compliant with Section V of the ASME code. NDE certifications are required for the individuals performing penetrant examinations and reviewing the examination records. Certifications needed on all materials used.									

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
-------------------------	----------------------------------	-------

1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input type="checkbox"/> YES <input type="checkbox"/> NO	2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b Q A CODES: Q20, Q12 c INSPECTION CRITERIA d QA APPROVAL (IF REQUIRED) <i>Mary R. Elston</i> DATE 2/13/03	3. SOURCING NOTES 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 IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE Darrell Dunn EXT. NO. 6090 DEPT. / DIVISION APPROVAL DATE 2/13/03 ADMIN. APPROVAL DATE	4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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6220 Culebra Road
San Antonio, TX 78238-5166

Page: 1
Date Printed: 01/09/2003

103431

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
09/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC C22 WLD SPECIMENS CNWRA DRAWING 20-06002-01-081-001 Req: 637644 Prime Contract #: NRC0202012 AOP: 704-000 1.20		EA	01/17/03	01/17/03	4.0000	337.5000	\$1,350.00
2	MISC DELIVERY OF MACHINED SPECIMENS Req: 637644 Prime Contract #: NRC0202012 AOP: 704-000 1.20		EA	01/17/03	01/17/03	1.0000	90.0000	\$90.00
THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."								

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 382894S**Page: 2
Date Printed: 01/09/2003Order To: INDUSTRIAL MECHANICAL INC.
5797 DIETRICH ROAD
BOX 200350
SAN ANTONIO, TX 78286

103431

Contact: SONNY ROGERS Ph: 662-4516 Fax: 662-4558

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
01/09/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.</p> <p>Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.</p> <p>Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510</p> <p>_____ Authorized Signatures</p>							
							PO Total Amt:	\$1,440.00



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 1/7/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 637644
SUGGESTED OR PREVIOUS SUPPLIER Industrial Mechanical Company		PURCHASING SELECTED SUPPLIER	
CITY, STATE		SHIP VIA	
ATTN: A.E. Sonny Rogers, Jr.		F.O.B.	
PHONE 662-4596		SUPPLIER CODE	
FAX 662-4503		ATTN	
TERMS		PHONE	
		FAX	

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	4	EA	C22 weld specimens CNWRA drawing						
			20-06002-01-081-001	20	06002.	01.081	100	1/17/03	337.50
B	1	EA	Delivery of machined specimens	20	06002.	01.081	100	1/17/03	90.00
			Quality & Technical Requirements: Specimens machined as per CNWRA drawing 20-06002-01-081-001. Dimensional inspection per dimensions and tolerances identified in CNWRA drawing 20-06002-01-081-001 is required. Specimens cut from Alloy 22 plate per 20-06002-01-081-002.						
			Attached drawings and quotes.						

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 CONSUMABLE
b ☐ G-2 DELIVERABLE
c ☐ G-3 ACCOUNTABLE / REPORTABLE
d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?
☒ YES
☐ NO

2. QUALITY ASSURANCE? ☒ YES ☐ NO

a ASL REQUIRED ☒ YES ☐ NO

b QA CODES: Q11, Q20

c INSPECTION CRITERIA

PI TO INSPECT PER QAP-016.

d QA APPROVAL (IF REQUIRED) DATE

[Signature] 1/7/2003

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.

Darrell Dunn

6090

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

IMC

INDUSTRIAL MECHANICAL COMPANY
A DIVISION OF CCC GROUP, INC.

5797 Dietrich Road
San Antonio, Texas 78219
Phone: 210-662-1690, 662-4596
Fax: 210-662-4503, 661-6060

SWRI

January 7, 2003

Attention: Darrell S. Dunn (Quote Ref. # 03-003)

Revision A

Industrial Mechanical Company is pleased to furnish the following quotation for your review and consideration.

	<u>Each</u>	<u>Total</u>
(4ea.) Alloy 22 Weld Specimen	\$337.50ea.	\$1,350.00
CNWRA Drawing 20-06002-01-081-001		

Work Scope:

Provide labor, equipment, and perishable tooling as required to machine the aforementioned in accordance with print specifications and instructions.

NOTES: 1) SWRI to provide all material.

2) A 63RMS finish required on weld surfaces (Detail A).

3) Q.C. reports on all dimensions per SWRI drawings will be provided.

Delivery: 2 – 3 working days from receipt of material. IMC can deliver these parts to SWRI when completed @ \$90.00/trip if you so desire.

Terms: 1) Prices are applicable for 90 days.

2) Net 30. Prices do not include any tax that may apply.

Thank You for considering Industrial Mechanical for your machining requirements.

Any questions about this bid may be directed to me @ 210-662-4596.

Respectfully Submitted,

A. E. "Sonny" Rogers Jr.
IMC Machine Shop Superintendent

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

Alloy 22 v.eld Specimen
CNWRA Drawing 20-06002-01-081-001
Dimensional tolerances as specified
Note: Detail A on Page 2

Page 1 of 2

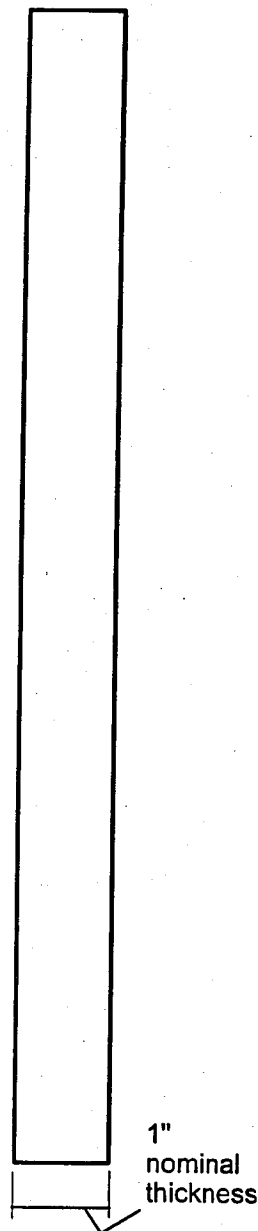
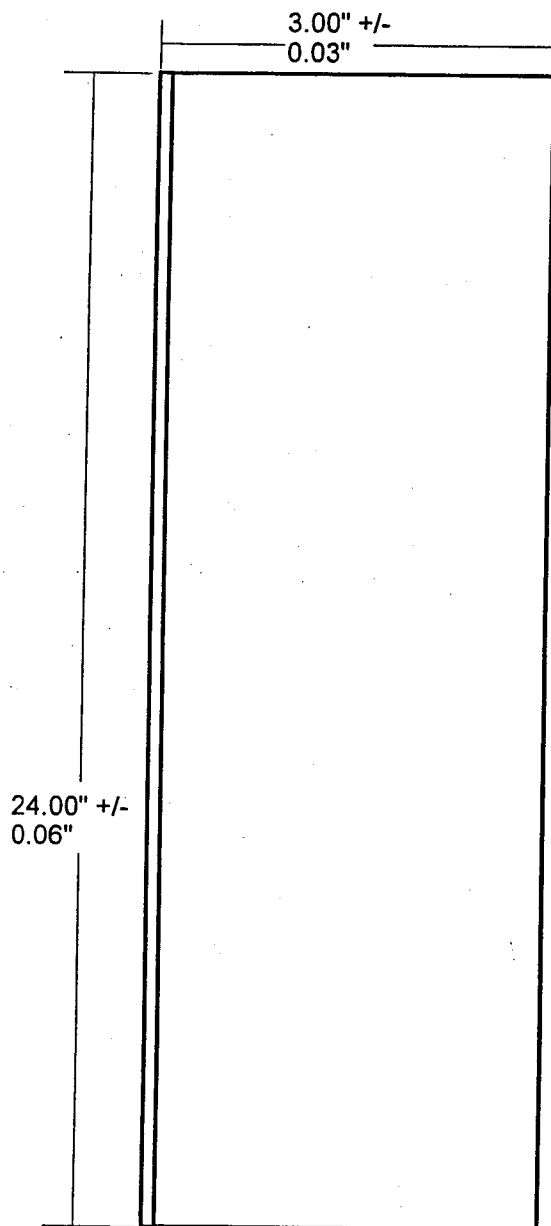
To be completed at time of order:

Material: _____

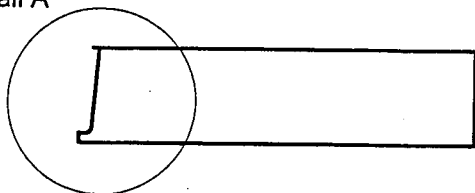
Heat: _____

Specimen Orientation: _____

Other: _____



Detail A



Darrell Dunn 10/7/2002
Initiated by: D. Dunn Date

Vijay Jain 10/7/2002
Reviewed by: V. Jain Date

B. Mabrito 10/7/2002
QA Approval B. Mabrito Date

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

Alloy 22 Weld Specimen
CNWRA Drawing 20-06002-01-081-001
All Dimensions ± 0.005 "
unless otherwise specified
Detail A identified on Page 1

Page 2 of 2

To: completed at time of order:

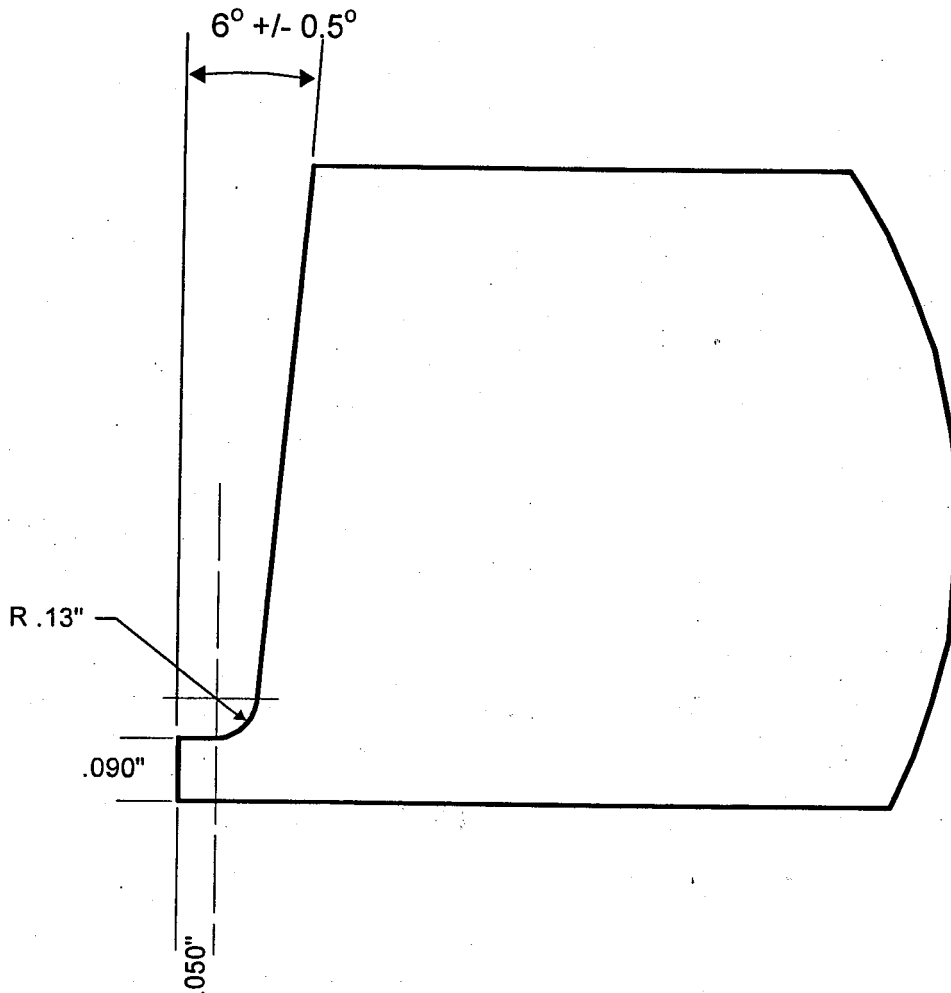
Material: _____

Heat: _____

Specimen Orientation: _____

Other: _____

Detail A



Darrell Dunn 10/7/2002
Initiated by: D. Dunn Date

V. Jain 10/7/2002
Reviewed by: V. Jain Date

B. Mabrito 10/7/2002
QA Approval B. Mabrito Date

Purchase Order # 370218N**Detail of Line # 1**

Acct ID	Proj ID	Org ID	Cst Pct
705-000	06002.01.081	1.20	100.00%

Full Description:

SERVICE PURCHASE ORDER2 - CHEMICAL ANALYSES OF ER NiCrMo-10 FILLER METAL QUALITY & TECHNICAL REQUIREMENTS: SEE ATTACHED DOCUMENTATION

Deliver to:

DARRELL DUNN EXT 6090



CNWRA *A center of excellence in earth
sciences and engineering*

6220 Culebra Road · San Antonio · Texas, U.S.A. 78228-5166

January 16, 2003

Darrell S. Dunn

Bldg. 57

Phone: (210) 522-6090

Fax: (210) 522-5184

E-Mail: ddunn@swri.org

Bill Scorzo

Conam Inspection

Dear Mr. Scorzo,

Enclosed please find the heat of Alloy 622 weld filler metals heat numbers XX1977BG11 (0.045:" diameter), and XX2432BG (3/32" diameter) submitted for chemical analyses. Per our previous phone conversations, I need to have the specimen analyzed for the Ni, Cr, Mo, W, Fe, C, Co, Cu, Mn, P, S, Si, and V. According to the vendor, the material heats are within the chemical composition ranges specified in AWS A5.14 ERNiCrMo-10. The specified chemical composition is provided below.

Cr: 20.0 - 22.5

Mo: 12.5 - 14.5

W: 2.5 - 3.5

Fe: 2.0 - 6.0

C: 0.015 max

Co: 2.5 max

Mn: 0.50 max

P: 0.02 max

S: 0.010 max

Si: 0.08 max

V: 0.35 max

Cu: 0.50

Others Elements Total: 0.5

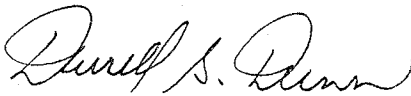
Ni: balance

A copy of the specification requirements in AWS A5.14 and copies of the mill test reports are included.

The chemical analyses performed by Conam Inspection should provide the chemical composition of the alloy heats and should specify the heat number of the material. The chemical analyses report should include the heat number of the base metal for the analyses conducted outside the weld fusion zone, and the heat number of both the base alloy and the filler metal for the analyses of the as deposited weld. The analyses should conclusively determine if the heats submitted are within the specifications listed in AWS A5.14 for ERNiCrMo-10. Any discrepancy between the chemical analyses performed by Conam Inspection and the specifications of AWS A5.14 for ERNiCrMo-10 should be clearly identified.

Please call me if you have any questions. Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "Darrell S. Dunn".

Darrell S. Dunn

Table 1 (Continued)

Weight-Percent ^{a,b}																		
AWS Classification ^m	UNS Number ^c	C	Mn	Fe	P	S	Si	Cu	Ni ^d	Co	Al	Ti	Cr	Nb plus Ta	Mo	V	W	Other Elements Total
ERNiCrMo-1	N06007	0.05	1.0 to 2.0	18.0 to 21.0	0.04	0.03	1.0	1.5 to 2.5	Rem	2.5	—	—	21.0 to 23.5	1.75 to 2.50	5.5 to 7.5	—	1.0	0.50
ERNiCrMo-2	N06002	0.05 to 0.15	1.0	17.0 to 20.0	0.04	0.03	1.0	0.50	Rem	0.5 to 2.5	—	—	20.5 to 23.0	—	8.0 to 10.0	—	0.2 to 1.0	0.50
ERNiCrMo-3 ^k	N06625	0.10	0.50	5.0	0.02	0.015	0.50	0.50	58.0 min.	—	0.40	0.40	20.0 to 23.0	3.15 to 4.15	8.0 to 10.0	—	—	0.50
ERNiCrMo-4	N10276	0.02	1.0	4.0 to 7.0	0.04	0.03	0.08	0.50	Rem	2.5	—	—	14.5 to 16.5	—	15.0 to 17.0	0.35	3.0 to 4.5	0.50
ERNiCrMo-7	N06455	0.015	1.0	3.0	0.04	0.03	0.08	0.50	Rem	2.0	—	0.70	14.0 to 18.0	—	14.0 to 18.0	—	0.50	0.50
ERNiCrMo-8	N06975	0.03	1.0	Rem	0.03	0.03	1.0	0.7 to 1.2	47.0 to 52.0	—	—	0.70 to 1.50	23.0 to 26.0	—	5.0 to 7.0	—	—	0.50
ERNiCrMo-9	N06985	0.015	1.0	18.0 to 21.0	0.04	0.03	1.0	1.5 to 2.5	Rem	5.0	—	—	21.0 to 23.5	0.50 to —	6.0 to 8.0	—	1.5	0.50
ERNiCrMo-10	N06022	0.015	0.50	2.0 to 6.0	0.02	0.010	0.08	0.50	Rem	2.5	—	—	20.0 to 22.5	—	12.5 to 14.5	0.35	2.5 to 3.5	0.50
ERNiCrMo-11	N06030	0.03	1.5	13.0 to 17.0	0.04	0.02	0.80	1.0 to 2.4	Rem	5.0	—	—	28.0 to 31.5	0.30 to 1.50	4.0 to 6.0	—	1.5 to 4.0	0.50
ERNiCrMo-13	N06059	0.010	0.5	1.5	0.015	0.005	0.10	—	Rem	0.3	0.1 to 0.4	—	22.0 to 24.0	—	15.0 to 16.5	—	—	0.50

(continued)

 ACTUAL MATERIAL TEST REPORT



6060 Donoho Street • Houston, Texas 77033

Phone: 713-649-8785 • 1-800-394-4350 • Fax: 713-644-9628 • www.amfiller.com

Customer: WELDERS SUPPLY COMPANY
 5406 JACKWOOD
 SAN ANTONIO, TX 78238

PO: WSC1041 Ship Date: 01/15/03 Net Weight: 30.1#
 Product: NB 622 MN Dimensions: .045 X 30
 Heat #: XX1977BG11 Specification: AWS A5.14 ERNiCrMo-10

C	Co	Cr	Cu	Fe	Mn
.005	.07	20.25	.09	2.56	.2
Mo	Ni	P	S	Si	V
14.13	59.6	.008	.001 <	.06	.04
W	Tot Others				
2.99	.5 <				

This certification is provided by American Filler Metals Co. with the understanding that if the product covered does not confirm to the stated specifications, there shall be no personal liability of any kind by the undersigned. Furthermore, the obligation and liability of (such non-conformance) by American Filler Metals Co. will be limited to a) furnishing the purchaser with a product conforming to the correct specifications, at no additional charge or b) to refund to the full purchase price paid for such non-conforming product. American Filler Metals Co. will not be liable for consequential damage.


 Authorized Representative



 ACTUAL MATERIAL TEST REPORT



**AMERICAN
FILLER METALS**

6060 Donoho Street • Houston, Texas 77033

Phone: 713-649-8785 • 1-800-394-4550 • Fax: 713-644-9628 • www.amfiller.com

Customer: WELDERS SUPPLY COMPANY
 5406 JACKWOOD
 SAN ANTONIO, TX 78238

PO: WSC1041 Ship Date: 01/15/03 Net Weight: 10.6#
 Product: NB 622 TE Dimensions: 3/32 X 36
 Heat #: XX2432BG Specification: AWS A5.14 ERNiCrMo-10

C	Co	Cr	Cu	Fe	Mn
.004	.06	20.62	.5 <	2.25	.25
Mo	Ni	P	S	Si	V
13.89	59.73	.004	.001 <	.04	.01
Wt. %	Tot Others				
3.14	.5 <				

This certification is provided by American Filler Metals Co. with the understanding that if the product covered does not confirm to the stated specifications, there shall be no personal liability of any kind by the undersigned. Furthermore, the obligation and liability of (such non-conformance) by American Filler Metals Co. will be limited to a) furnishing the purchaser with a product conforming to the correct specifications, at no additional charge or b) to refund to the full purchase price paid for such non-conforming product. American Filler Metals Co. will not be liable for consequential damage.


 Authorized Representative


6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 3R95518

Date Printed: 02/27/2003

103744

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: JAKE Ph: 630-681-0008 Fax: 630-871-5520

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
1 8/02	Betty Varnon	NET 30	SHIPPING POINT		VENDOR TRUCK	FAX TO BYRON CHAPA		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * C O N F I R M A T I O N * *****							
	This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	SERVICES 21		EA	03/06/03	03/06/03	1.0000	240.0000	\$240.00
	PLEASE ANALYZE THE SAMPLE: EN6502-3-0981 FOR THE FOLLOWING ELEMENTS: NI, FE, P, S, C, SI, MG.							
	INVOICE #199147 (02/06/200#) \$ 80.00 INVOICE #198744 (01/24/2003) \$160.00							
	Req: 01513-SO							
	Prime Contract #: NRC0202012 Priority: NONE AOP: 705-000 1.20 06002.01.081							
	COMPLETE, INVOICES #199147 & #198944. RELEASED BY BYRON CHAPA							
	PLEASE FAX RESULTS TO BYRON CHAPA @ 210-522-6220							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510							
							PO Total Amt:	\$240.00
Authorized Signatures								

SOUTHWEST RESEARCH INSTITUTE

7 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 370227N

Page: 1
Date Printed: 02/24/2003

Order To: IHI SOUTHWEST TECHNOLOGIES, INC.
6766 CULEBRA ROAD
BLDG 169
SAN ANTONIO, TX 78238

503036

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: FRED ANDERSON Ph: 256-4108 Fax: 521-2311

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 4/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700). *****							
1	SERVICES 01 SERVICE PURCHASE ORDER RADIOGRAPHIC INSPECTION OF ALLOY 22 WELD QUALITY & TECHNICAL REQUIREMENTS: QUALITY AFFECTING ITEM, TEST PROCEDURES MUST BE COMPLIANT WITH ASME CODE. NDE CERTIFICATIONS REQUIRED FOR INDIVIDUALS PERFORMING AND REVIEWING RADIOGRAPHIC INSPECTION. "QUALITY AFFECTING PURCHASE" Req: 637651 Prime Contract #: NRC0202012 Priority: NONE AOP: 705-000 1.20 06002.01.081 THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."	EA	02/24/03	02/24/03		1.0000	440.0000	\$440.00

San Antonio, TX 78238-5166

Page: 2
Date Printed: 02/24/2003

503036

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 4/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.</p> <p>CERTIFIED INSPECTION/TEST DATA IS REQUIRED WITH SHIPMENT OF PARTS, MATERIALS, AND FOR SERVICES.</p> <p>SERVICES RENDERED BY SELLER FOR INSTITUTE AND SELLER'S AND INSTITUTE'S RESPECTIVE RELATIONSHIP IN ALL MATTERS RELATED TO THIS PURCHASE ORDER SHALL BE AS INDEPENDENT CONTRACTOR AND NOT AS EMPLOYEE, AGENT OR SERVANT. SELLER SHALL OBEY ALL FEDERAL, STATE, AND LOCAL SAFETY AND HEALTH REGULATIONS IN THE PERFORMANCE OF THE SERVICES TO BE SUPPLIED HEREUNDER, AND WHILE ON THE PREMISES OF THE INSTITUTE.</p> <p>SELLER HEREBY AGREES TO FOREVER RELEASE & HOLD HARMLESS INSTITUTE FROM ANY & ALL CAUSE OR CAUSES OF ACTION, INCLUDING PERSONAL INJURY, ILLNESS, DEATH, & PROPERTY DAMAGE, COSTS, CHARGES, CLAIMS, DEMANDS, & LIABILITIES OF WHATEVER KIND, NAME</p>							

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 370227N**

Page: 3

Date Printed: 02/24/2003

Order To: IHI SOUTHWEST TECHNOLOGIES, INC.
6766 CULEBRA ROAD
BLDG 169
SAN ANTONIO, TX 78238

503036

Contact: FRED ANDERSON Ph: 256-4108 Fax: 521-2311

Contact: FRED ANDERSON FAX: 800-368-1100 FAX: 505-261-1000											
ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO					
01/14/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090					
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST		EXTENDED COST		
	<p>OR NATURE, ARISING FROM THE PERFORMANCE OF ANY SERVICES HEREUNDER AND HOWSOEVER THE SAME BE CAUSED; EXCEPT AS A RESULT OF THE SOLE NEGLIGENCE OF THE INSTITUTE.</p> <p>BY ACCEPTANCE OF THIS PURCHASE ORDER FOR THE PERFORMANCE OF SERVICES REQUIRED, THE SELLER AGREES AND COVENANTS THAT THE FOLLOWING CONDITIONS ARE MET WHEN PROVIDING ANY EMPLOYEE OF SELLER:</p> <p>1. NONE OF SELLER'S EMPLOYEES WHO PROVIDE SERVICES TO BUYER PURSUANT TO THIS PURCHASE ORDER ARE UNAUTHORIZED ALIENS AS DEFINED IN THE IMMIGRATION REFORM AND CONTROL ACT OF 1986; AND</p> <p>2. IF SELLER'S EMPLOYEES ARE FOREIGN NATIONAL WORKERS PRESENT IN THE UNITED STATES UNDER A NONIMMIGRANT VISA CATEGORY THAT CARRIES AUTHORIZATION TO WORK, SELLER WILL FURNISH TO BUYER A COPY OF THE APPROPRIATE WORK AUTHORIZATION DOCUMENT FOR EACH FOREIGN NATIONAL WORKER VERIFYING THE WORK AUTHORIZATION, INCLUDING BUT NOT LIMITED TO COPY OF EMPLOYMENT AUTHORIZATION DOCUMENT, APPROVED FORM I-797 AND CERTIFIED LABOR CONDITION APPLICATION, OR OTHER ACCEPTABLE DOCUMENTATION. SUCH EMPLOYEES WILL ONLY BE UTILIZED TO PERFORM SERVICES WHICH ARE NOT EXPORT CONTROLLED; AND</p> <p>3. ALL OF SELLER'S EMPLOYEES WHO ARE TO PERFORM SERVICES WHICH ARE EXPORT CONTROLLED SHALL BE UNITED STATES CITIZENS OR LEGAL PERMANENT RESIDENTS OF THE UNITED STATES.</p> <p>Bill To: SOUTHWEST RESEARCH INSTITUTE</p>										

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 370227N**Page: 4
Date Printed: 02/24/2003Order To: IHI SOUTHWEST TECHNOLOGIES, INC.
6766 CULEBRA ROAD
BLDG 169
SAN ANTONIO, TX 78238

503036

Contact: FRED ANDERSON Ph: 256-4108 Fax: 521-2311

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO	
0 4/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090	
LINE	ITEM/DESCRIPTION	REV	DUE U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510					PO Total Amt:	\$440.00
	Authorized Signatures						

SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383229S

Page: 1
Date Printed: 03/06/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 6/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700). *****							
1	MISC CREVICE CORROSION TEST SPECIMENS 20-1402-571-027 MACHINED FROM ALLOY 22 PLATE ATTACHED QUOTE AND CNWRA DRAWING 20-01402-571-027 QUALITY & TECHNICAL REQUIREMENTS: SPECIMENS MACHINED AS PER CNWRA DRAWING 20-01402-571-027. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20-01402-571-027 IS REQUIRED. SPECIMENS SHOULD BE CUT FROM PLATE USING A WIRE EDM OR OTHER METHOD THAT CONSERVES MATERIAL. Req: 632625 Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081 SWRI QA RECEIVING INSPECTION CRITERIA: QAP-016 THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY	EA	03/28/03	03/28/03	20.0000	149.5000	\$2,990.00	

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383229S

Page: 2

Date Printed: 03/06/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							
	Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possiblility of audits, source inspections, or surveillances. Any special documentation requirements shll be specified in the purchaes order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.							
	CERTIFIED INSPECTION/TEST DATA IS REQUIRED WITH SHIPMENT OF PARTS, MATERIALS, AND FOR SERVICES.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510						PO Total Amt:	\$2,990.00

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383229S**

Page: 3

Date Printed: 03/06/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO	
0 6/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57	
LINE	ITEM/DESCRIPTION	REV	DUE U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Authorized Signatures						



SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE

03/03/03

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

✓ 632625

SUGGESTED OR PREVIOUS SUPPLIER

Texas Toolmakers

CITY, STATE

11411 Coker Loop

ATTN:

Mike Ridgway

PHONE

210/ 494-3651

FAX

210/ 4946139

DELIVER TO

D. Dunn/Bldg. 57

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	20	ea.	Crevice corrosion test specimens	20	X 06002.01	081	100	03/28/03	\$149.50
			20-1402-571-027 Machined from Alloy						
			22 plate.						
			Attached Quote and CNWRA Drawing 20-01402-571-027						
			Quality and Technical Requirements:						
			Specimens machined as per CNWRA drawing						
			20-01402-571-027.						
			Dimensional inspection per dimensions and						
			tolerances identified in CNWRA Drawing 20-01402-571-027 is required.						
			Specimens should be cut from plate using a wire EDM or						
			other method that conserves material.						
			"Quality Affecting Purchase"						
			MATERIAL Supplied by SWRI						

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 CONSUMABLE

b ☐ G-2 DELIVERABLE

c ☐ G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

☒ YES

☐ NO

2. QUALITY ASSURANCE? ☒ YES ☐ NO

a ASL REQUIRED? ☒ YES ☐ NO

b Q A CODES:

Q20, Q12

c INSPECTION CRITERIA

PI TO INSPECT per QAP. 016.

d QA APPROVAL (IF REQUIRED)

DATE

Sumitran 3/3/03

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.

Darrell Dunn

6090

DEPT. / DIVISION APPROVAL

DATE

Vijay Jain

3/3/03

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

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

CNWRA Drawing 20-01402-571-027
Dimensional tolerances ± 0.005 "
unless otherwise specified
16 rms surface finish

Crevice Repassivation Specimen

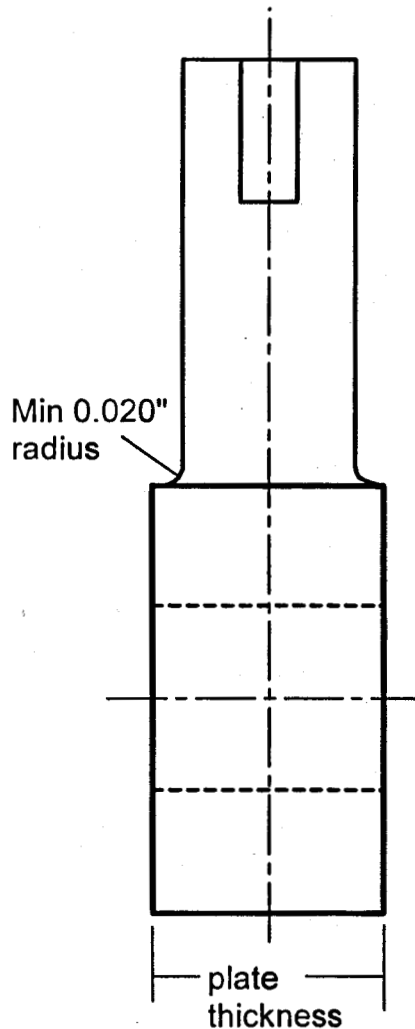
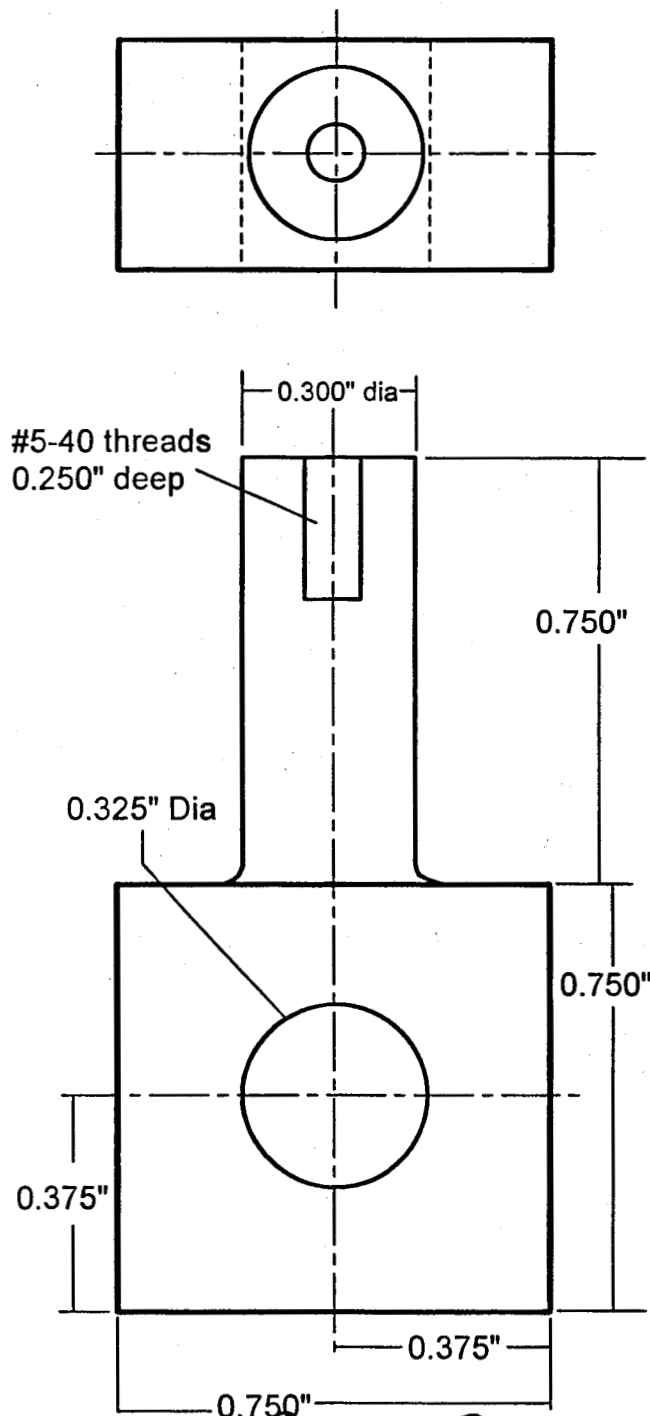
To: completed at time of order.

Material: Alloy C-22

Heat: 2277-8-3175

Specimen Orientation: —

Other: —



Darrell Dunn 7/5/2002
Initiated by: D. Dunn Date

V. Jan 7/5/02
Reviewed by V. Jan Date
B. Mabrito 7/5/2002
QA Approval B. Mabrito Date

6220 Culebrá Road
San Antonio, TX 78238-5166

100987

6220 Culebra Road
San Antonio, TX 78238-5166

Date Printed: 02/14/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO	
04/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK		
LINE	ITEM/DESCRIPTION	REV	U/M	DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700). *****						
1	MISC U-BENDED TEST SPECIMENS 20.06002.01.081.003 MACHINED FROM WELDED ALLOY 22 PLATE Req: 624882 Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081 NOTE: QUALITY & TECHNICAL REQUIREMENTS: SPECIMENS MACHINED AS PER CNWRA DRAWING 20.06002.01.081.003 DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20.06002.01.081 IS REQUIRED. "QUALITY AFFECTING" THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."	EA 02/20/03 02/20/03	12.0000	121.0000	\$1,452.00		

SOUTHWEST RESEARCH INSTITUTE6220 Culebra Road
San Antonio, TX 78238-5166**Purchase Order: 383088S**Page: 2
Date Printed: 02/14/2003Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
04/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK			
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510						PO Total Amt:	\$1,452.00
	<div>Authorized Signatures</div>							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

✓ 624882

SUGGESTED OR PREVIOUS SUPPLIER

Texas Toolmakers

CITY, STATE

11411 CokeerLoop

ATTN:

Mike Ridgway

PHONE

210 494-3651

FAX

210 494-6139

DELIVER TO

PURCHASING SELECTED SUPPLIER

SHIP VIA

F.O.B.

SUPPLIER CODE

ATTN

TERMS

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	12	each	U-bended test specimens	20	06002.01	081	100	2/20/03	\$121.00
			20.06002.01.081.003 machined						
			from welded alloy 22 plate						
			Quality and Technical Requirements:						
			Specimens machined as per CNWRA drawing 20.06002.01.081.003						
			Dimensional inspection per dimensions and tolerances						
			identified in CNWRA drawing 20.06002.01.081, is required.						
			"Quality Affecting"						
			Attached drawings and quotes						

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 CONSUMABLE
- b ☐ G-2 DELIVERABLE
- c ☐ G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

- ☒ YES
- ☐ NO

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

b QA CODES: Q-11

c INSPECTION CRITERIA

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.

Darrell S. Dunn

6090

DEPT. / DIVISION APPROVAL

DATE

Vijay Jain

2/13/03

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

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

U-bend specimen
CNWRA 20.06002.01.081.003
All Dimensions ± 0.010 "
unless otherwise specified

Page 1 of 2

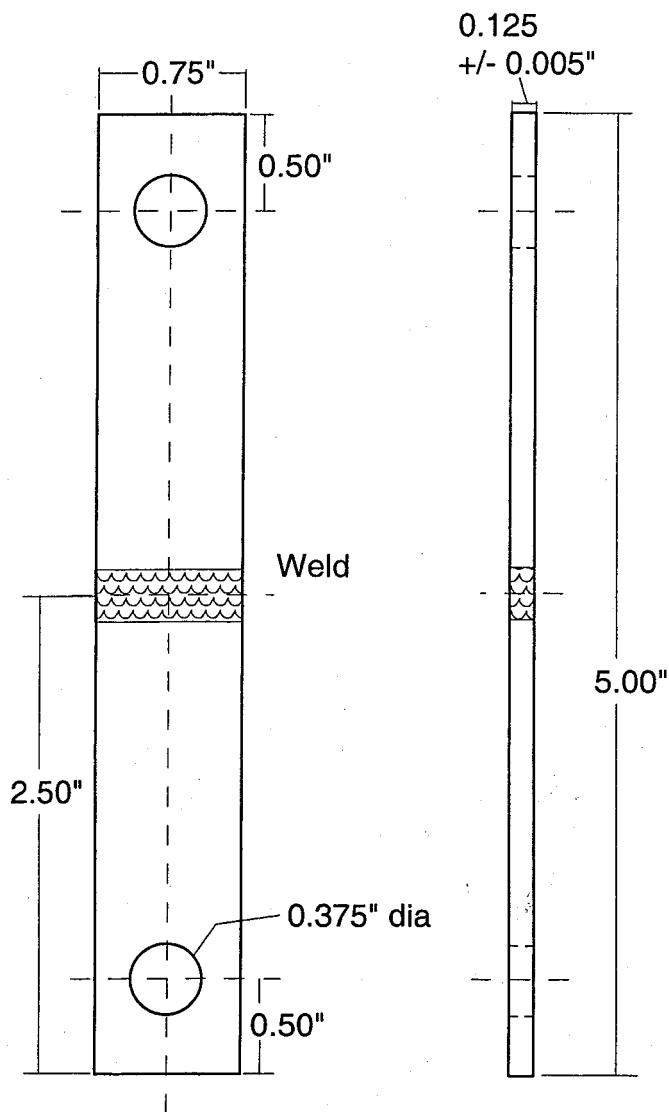
Time completed at time of order:

Material: Welded Alloy 22 NG-GTAW
(58Ni-22Cr-13.5Mo-3W-3Fe)

Heat: 059902LL2 & XX2048BG

Specimen Orientation: As shown

Other: Framatome D62X plate



Darrell Dunn 2/12/03
Initiated by: D. Dunn Date

V. Jain 2/12/03
Reviewed by V. Jain Date

B. Mabrito 2/12/2003
QA Approval B. Mabrito Date

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

Location of U-bend specimens
CNWRA Drawing 20-06002-01-081-003

Page 2 of 2

Time completed at time of order:

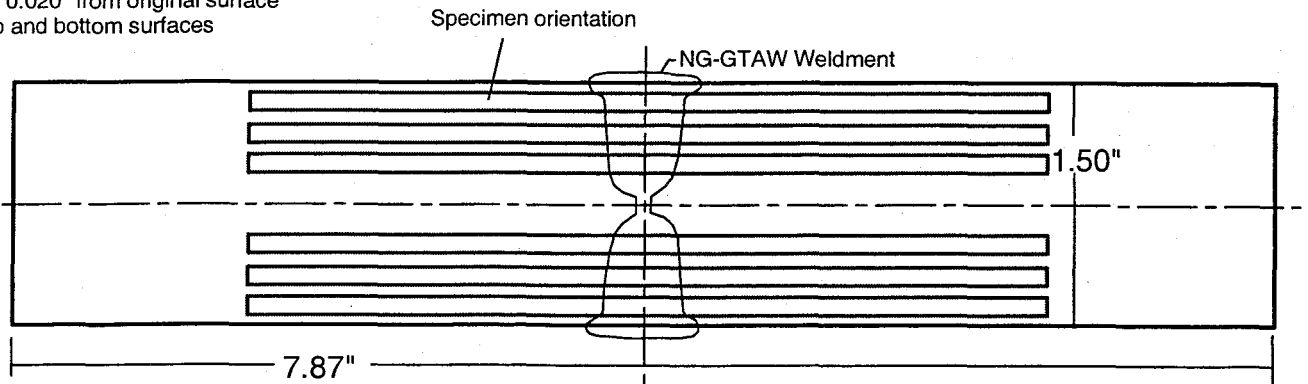
Material: Welded Alloy 22 NG-GTAW
(58Ni-22Cr-13.5Mo-3W-3Fe)


Heat: 059902LL2 & XX2048BG


Specimen Orientation: As shown

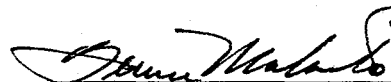
Other: Framatome D62X plate

Mill 0.020" from original surface
Top and bottom surfaces




Initiated by: D. Dunn
Date: 2/12/2003


Reviewed by V. Jain
Date: 2/12/03


QA Approval B. Mabrito
Date: 2/12/2003

TEXAS TOOLMAKERS, INC.
14411 EAST COKER LOOP
SAN ANTONIO, TX 78216-2810

Phone: 210-494-3651
Fax: 210-494-6139
Page 1

CUSTOMER QUOTE/WORK ORDER

Quote Number: 095

Customer: 1111

SOUTHWEST RESEARCH INSTITUTE
6220 CULBERTA ROAD
SAN ANTONIO, TX 78228

Contact: DARRELL DUNN

Cust. Phone: 210-684-6111

Cust. Fax: 522-5164

Assigned Job #:

Quoted Leadtime in days: 1 WK AEO

FOB:

TTI TRUCK

Terms:

0.5% / 10 days, Net 30

Quote Good Until:

12/00/2003 5-12-03

Quote Date:

12/00/2003 2-12-03

Quoted By:

MIRDCWAY

ITEM	PART NUMBER	REV	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
00	CNVAR20.06002.01.08		U-BEND SPECIMENS	12.00	121.00	\$1,452.00
	1.003					

Part Instructions:

Quality Requirements:	<input type="checkbox"/> None	<input checked="" type="checkbox"/> As Noted Below
Material / Process Certification:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Documented Dimensional Inspection:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	R YES: <input type="checkbox"/> Specified Dimensions Only <input type="checkbox"/> Sampling <input type="checkbox"/> 100%	

Authorized TTI Representative:	<i>Mike Ridgway</i>
Customer Acceptance:	Title:
Customer Comments:	Date:

Note: Price(s) may be affected if scope of work/inspection is deviated from that quoted.

TTI Form OF 080101

Rev. 2

Purchase Order: 383165S

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 6/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * * DUPLICATE PO * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC CYLINDRICAL SPECIMENS FROM BASE METAL		EA	03/07/03	03/07/03	8.0000	73.0000	\$584.00
	Req: 637659 Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081							
2	MISC CYLINDRICAL SPECIMENS FROM WELD METAL		EA	03/07/03	03/07/03	8.0000	73.0000	\$584.00
	QUALITY & TECHNICAL REQUIREMENTS: SPECIMENS MACHINED AS PER CNWRA DRAWING 20-01402-571-019. LOCATION OF SPECIMENS SPECIFIED IN 20-06002-01-081-004. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20-01402-571-019 IS REQUIRED Req: 637659 Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081 SWRI QA RECEIVING INSPECTION CRITERIA: QAP-016 THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383165S

Page: 2
Date Printed: 02/27/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 6/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS." SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS. Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possiblility of audits, source inspections, or surveillances. Any special documentation requirements shll be specified in the purchaes order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149. Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510							

SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383165S

Page: 3
Date Printed: 02/27/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE		BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 6/03		Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57		
LINE	ITEM/DESCRIPTION		REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Attention: Accounts Payable San Antonio, TX 78228-0510						-	PO Total Amt:	\$1,168.00
	<div>Authorized Signatures</div>								



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 2/25/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 637659
DELIVER TO D. Dunn/bldg. 57		PURCHASING SELECTED SUPPLIER	
SHIP VIA			
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

SUGGESTED OR PREVIOUS SUPPLIER

Texas Toolmakers

CITY, STATE

ATTN:

Mike Ridgway

PHONE

FAX

210/49403651**210/494-6139**

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	8	EA	Cylindrical specimens from base metal	20	06002.01.	001	100	3/7/03	73.00
B	8	EA	Cylindrical specimens from weld metal	20	06002.01.	081	100	3/7/03	73.00
			Quality & Technical Requirements: Specimens machined as per CNWRA drawing 20-01402-571-019. Location of specimens specified in 20-06002-01-081-004.						
			Dimensional inspection per dimensions and tolerances identified in CNWRA drawing 20-01402-571-019 is required.						
			Attached drawings and quotes.						
			<i>Quality affecting Purchase</i>						
			<i>Q20 2/25/03</i>						

INTERNAL NOTES TO BUYER

Call D. Dunn with P.O. #

SPECIAL INSTRUCTIONS TO SUPPLIER

TOTAL1. 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 ☐ NOb QA CODES: **Q11, Q20**

c INSPECTION CRITERIA

P.I. to inspect per QAP-C16

d QA APPROVAL (IF REQUIRED)

DATE

Mark R. Shumaker 2/25/03

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.

D. Dunn**6090**

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

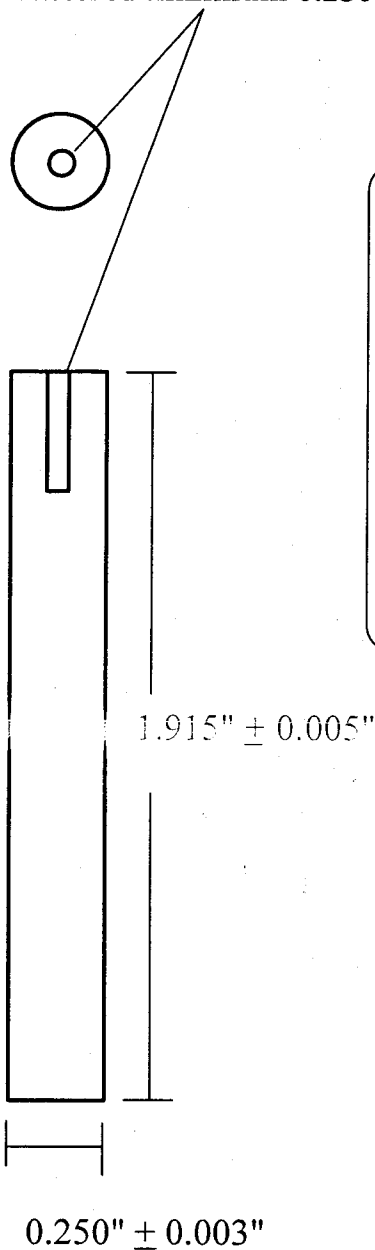
SEE INSTRUCTIONS ON REVERSE SIDE

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184

Cylindrical Test Specimen

CNWRA Drawing 20.01402.571.019

#5-40 thread centered minimum 0.250" deep



This information is to be completed at time of fabrication.

Material: ALLOY 22

Heat #: 059902LL2 # XX2048DG

Specimen

Orientation: AS SHOWN IN

CNWRA 20.06002.01.081.004

Other: _____

Darrell S. Dunn 10/15/01
Initiated by: D. Dunn Date

V. Jain 10/15/01
Reviewed by V. Jain Date

B. Mabrito 10/15/01
QA Approval B. Mabrito Date

TEXAS TOOLMAKERS, INC.
11411 EAST COKER LOOP
SAN ANTONIO, TX 78216-2810

FAXED

FEB 12 2003

Phone: 210-494-3651
Fax: 210-494-6139

Page 1

CUSTOMER QUOTE WORK ORDER

FAXED

FEB 24 2003

FAXED

FEB 24 2003

BY:

Quoted By:

MIRIDGWAY

Quote Date:

~~12/00/2002~~ 2-12-03

Quote Good Until:

~~12/00/2003~~ 5-12-03

Terms:

0.5%/10 days, Net 30

FOB:

TTI TRUCK

Quoted Leadtime in days:

2-wks ARD

Assigned Job #:

Quote Number: Q98

Customer: 1111

SOUTHWEST RESEARCH INSTITUTE

6220 CULEBRA ROAD

SAN ANTONIO, TX 78228

Contact: DARRELL DUNN

Cust. Phone: 210-684-5111

Cust. Fax: 522-5184

ITEM	PART NUMBER	REV	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
10	CNWAR		CYLINDRICAL SPECIMEN	16.00	73.00	\$1,168.00
	20.06002.01.081.004					

Work Instructions:

Quality Requirements: ☐ None ☒ As Noted Below

Material / Process Certification: ☐ Yes ☒ No Certificate of Compliance: ☒ Yes ☐ No Source Inspection: ☐ Yes ☒ No

Documented Dimensional Inspection: ☐ Yes ☒ No If YES: 1) ☐ Specified Dimensions Only 2) ☐ Sampling 3) ☐ 100%

Authorized TTI Representative: *Mike Ridgway* Date: 2-12-03

Customer Acceptance: Title: Date:

Customer Comments:

Note: Price(s) may be affected if scope of work/inspection is deviated from that quoted.

Reviewed by: *[Signature]* Date: *[Date]* Pro. granted at time of review: Yes ☒ No ☐

TTI Form QW-030101

Rev. 2

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

Location of Cylindrical Test Specimens
CNWRA Drawing 20.06002.01.081.004

Cylindrical Test Specimen Dimensions
CNWRA 20.01402.571.019

Page 1 of 1

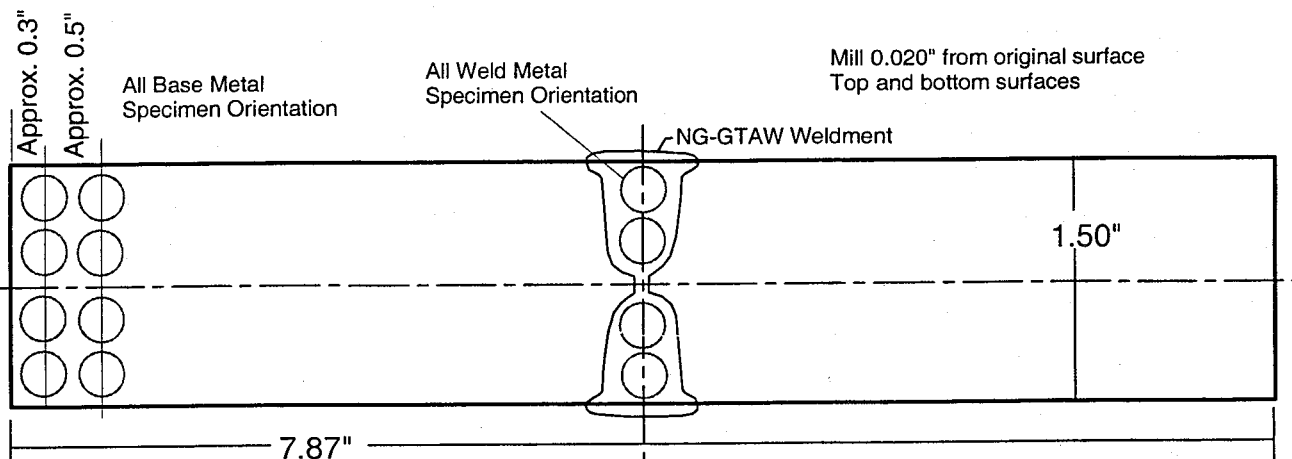
To be completed at time of order:

Material: Welded Alloy 22 NG-GTAW
(58Ni-22Cr-13.5Mo-3W-3Fe)

Heat: 059902LL2 & XX2048BG

Specimen Orientation: As shown

Other: Framatome D62X plate



Darrell S. Dunn 2/12/2003
Initiated by. D. Dunn Date

V. Jain 2/12/03
Reviewed by V. Jain Date

B. Mabrito 2/12/2003
QA Approval B. Mabrito Date

Purchase Order: 383260S

Page: 1
Date Printed: 03/12/2003

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
03/21/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	<p>***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700). *****</p> <p>MISC EA 03/21/03 03/21/03 3.0000 288.0000 \$864.00</p> <p>WIRE EDM WELDED SPECIMENS INTO TWO PIECES ALONG LENGTH OF WELD</p> <p>Req: 637663</p> <p>Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081</p> <p>SWRI QA RECEIVING INSPECTION CRITERIA: QAP-016</p> <p>THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.</p> <p>AGREED & ACCEPTED: _____</p> <p>DATE: _____</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>Your organization will provide services to the Center for Nuclear Waste Regulatory</p>							

SOUTHWEST RESEARCH INSTITUTE

6220. Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 383260S

Page: 2

Date Printed: 03/12/2003

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO			
03/12/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57			
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST	
	Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.								
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510								
	<div>Authorized Signatures</div>								
							PO Total Amt:	\$864.00	



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE 3/10/03	ORDER DATE	PURCHASE ORDER NUMBER	DEPARTMENT 637663	REQ. NO.
SUGGESTED OR PREVIOUS SUPPLIER Texas Toolmakers		PURCHASING SELECTED SUPPLIER		
CITY, STATE		SHIP VIA		
ATTN: Mike Ridgway		F.O.B.		SUPPLIER CODE
PHONE 494-3651		TERMS		PHONE
FAX 494-6139				FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A 3		EA	Wire EDM welded specimens into two pieces along length of weld	20	06002.01.	001	100	3/21/03	288.00
			Quality & Technical Requirements: Specimens cut in half along 24 inch length using wire EDM to conserve material.						
			"Quality Affecting Purchase"						

INTERNAL NOTES TO BUYER Call D. Dunn at x6090 with P.O. number		SPECIAL INSTRUCTIONS TO SUPPLIER		TOTAL			
1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b Q A CODES: Q20 c INSPECTION CRITERIA <i>P.I. To inspect per QAP-016</i> d QA APPROVAL (IF REQUIRED) <i>[Signature]</i> DATE 3/10/03		3. SOURCING NOTES, 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 IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE Darrell Dunn EXT. NO. 6090 DEPT. / DIVISION APPROVAL <i>[Signature]</i> DATE 3/10/03 ADMIN. APPROVAL _____ DATE _____		4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input checked="" type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____	
CONTRACT REVIEW APPROVAL _____ DATE _____		BUYER SIGNATURE _____ DATE _____		SEE INSTRUCTIONS ON REVERSE SIDE			

TEXAS TOOLMAKERS, INC.
11411 EAST COKER LOOP
SAN ANTONIO, TX 78216-2810

Phone: 210-494-3651
Fax: 210-494-6139

Page 1

CUSTOMER QUOTE/WORK ORDER

Quote Number: Q143

Quoted By: MRIDGWAY

Customer: 1111
SOUTHWEST RESEARCH INSTITUTE
6220 CULEBRA ROAD
SAN ANTONIO, TX 78228
Contact: DARRELL DUNN
Cust. Phone: 522-6090
Cust. Fax: 522-5184

Quote Date: 3/3/03
Quote Good Until: 6/3/03
Terms: 0.5%/10 days, Net 30
FOB: TTI
Quoted Leadtime in days: *Negotiable*

Assigned Job #:

ITEM	PART NUMBER	REV	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
1.00	WELD SPECIMENS		1" X 6" X 24" SPECIMEN SIZE	3.00	288.00	\$864.00

Work Instructions:

QUOTE IS BASED ON WIRE EDM OF SPECIMENS IN TWO PIECES LENGTHWAY

Quality Requirements: <input type="checkbox"/> None <input checked="" type="checkbox"/> As Noted Below	
Material / Process Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Certificate of Compliance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Source Inspection: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Documented Dimensional Inspection: <input type="checkbox"/> Yes <input type="checkbox"/> No	
IF YES: 1) <input type="checkbox"/> Specified Dimensions Only 2) <input type="checkbox"/> Sampling 3) <input type="checkbox"/> 100%	
Authorized TTI Representative: <i>Mike Ridgway</i>	Date: 3-3-03
Customer Acceptance:	Title: Date:
Customer Comments:	
<small>Note: Price(s) may be affected if scope of work/inspection is deviated from that quoted.</small> <small>For TTI Use Only</small>	
Reviewed by:	Date: <input type="checkbox"/> O provided at time of review <input type="checkbox"/> Yes

Requisition # 637640 **Date:** 12/20/2002 **Status:** PO Generated
Requisitioner: Dunn, Darrell S. **Buyer:** Silvers, Jimmie W.
Target Place Date: 12/27/02 **Date Entered:** 12/20/02

Purchase Order # 382832S

Vendor: WELDERS SUPPLY CO.

Order Date: 12/20/02

Due Date: 01/03/03

<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>	
1	10	10	10	12/31/2002	UPS	\$214.90	3/32" DIA X 36" LONG BARE ELECTRODES ER NiCrMo-10 FILLER
2	30	30	30	12/31/2002	UPS	\$647.10	0.045" DIA SPOOL WELDING ER NiCrMo-10 FILLER METAL

Total \$862.00

NOTES: QUALITY AND TECHNICAL REQUIREMENTS: QUALITY AFFECTING PURCHASE. MATERIAL MUST MEET THE COMPOSITIONAL SPECIFICATIONS SFA A5.14 AWS CLASSIFICATION ERNiCrMo-10 FOR WELD FILLER METAL. VENDOR WILL PROVIDE A COPY OF THE MILL TEST REPORT CONTAINING FOR THE PLATE WITH THE HEAT NUMBER. AN INDEPENDENT CHEMICAL ANALYSES OF THE MATERIAL WILL BE PERFORMED. ACCEPTANCE OF THE MATERIAL WILL BE DETERMINED BY THE OUTCOME OF THE INDEPENDENT CHEMICAL ANALYSES.

FOOTNOTES: P8 P12 Q4



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

12/18/02

✓ 637640

SUGGESTED OR PREVIOUS SUPPLIER

Welders Supply

DELIVER TO

Darrell Dunn/bldg. 587

PURCHASING SELECTED SUPPLIER

CITY, STATE

SHIP VIA

ATTN:

F.O.B.

SUPPLIER CODE

ATTN

PHONE

FAX

TERMS

PHONE

FAX

684-0232

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	10	1b	3/32" dia x 36" long bare electrodes ER NiCrMo-10 filler metal	20	06002.01.	0812	100	1/3/03	21.49
B	30	1b	0.045 " dia spool welding ER NiCrMo- 10 filler metal	20	06002.01.	081	100	1/3/03	21.57
<p>Quality & Technical Requirements: Quality affecting purchase. Material must meet the compositional specifications SFA A5.14 AWS classification ERNiCrMo-10 for weld filler metal. Vendor will provide a copy of the mill test report containing for the plate with the heat number. An independent chemical analyses of the material will be performed. Acceptance of the material will be determined by the outcome of the independent chemical analyses.</p>									

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 CONSUMABLE
- b ☐ G-2 DELIVERABLE
- c ☐ G-3 ACCOUNTABLE / REPORTABLE
- d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?
- ☐ YES
- ☐ NO

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

b Q A CODES: Q4

c INSPECTION CRITERIA

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.

Darrell Dunn

6090

DEPT. / DIVISION APPROVAL

DATE

12/18/02

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.
637636

Purchase Order # 375301P

Vendor: IHI SOUTHWEST
TECHNOLOGIES, INC.

Order Date: 12/12/02

Due Date: 12/12/02

LN	ORD	REC	ACC	REC	SHIP	TOT	
<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	2	0	0		N/A	\$880.00	SERVICE PURCHASE ORDER

Total \$880.00

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q20 Q12 P12

No requisition is available for the record you have requested.
637634

Purchase Order # 370215N

Vendor: IHI SOUTHWEST
TECHNOLOGIES, INC.

Order Date: 12/03/02

Due Date: 12/03/02

<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	\$200.00	SERVICE PURCHASE ORDER
						Total	\$200.00

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q20 Q12



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

12/2/02

637634

SUGGESTED OR PREVIOUS SUPPLIER

DELIVER TO

PURCHASING SELECTED SUPPLIER

THI Southwest

D. Dunn/bldg. 57

CITY, STATE

SHIP VIA

ATTN:

F.O.B.

SUPPLIER CODE

ATTN

Fred Anderson

PHONE

FAX

TERMS

PHONE

FAX

256-4108

521-2311

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
	#	EA	Penetrant test root pass of						
			Alloy 22 weld	20	06002.01/	081	100	12/4/02	\$200.00
			Quality & Technical Requirements: Quality affecting item test procedures						
			must be compliant with Section V of the ASME code. NDE CERTIFICATIONS						
			needed for the individuals performing penetrant						
			Test; certifications needed on materials used.						

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 CONSUMABLE
- b ☐ G-2 DELIVERABLE
- c ☐ G-3 ACCOUNTABLE / REPORTABLE
- d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?
- ☐ YES
- ☒ NO

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

b Q A CODES: Q20, Q12

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED) DATE

12/2/02

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

EXT. NO.

Darrell Dunn

6090

DEPT. / DIVISION APPROVAL

DATE

12/2/2002

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



SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE

12/2/02

ORDER DATE

PURCHASE ORDER NUMBER

REQ NO.

637634

SUGGESTED OR PREVIOUS SUPPLIER

IHI Southwest

CITY, STATE

DELIVER TO

D. Dunn/bldg. 57

SHIP VIA

PURCHASING SELECTED SUPPLIER

ATTN:

Fred Anderson

F.O.B.

SUPPLIER CODE

ATTN

PHONE

256-4108

FAX

521-2311

TERMS

PHONE

FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	3	EA	Penetrant test root pass of						
			Alloy 22 weld	20	06002.01.	081	100	12/4/02	\$200.00
			Quality & Technical Requirements: Quality affecting item test procedures						
			must be compliant with Section V of the ASME code. <i>NDE certifications</i>						
			<i>needed for the individuals performing penetrant</i>						
			<i>Test; certifications needed on materials used.</i>						

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: Q20, Q12

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED)

DATE

DATE

BUYER SIGNATURE

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.

Darrell Dunn

6090

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

SEE INSTRUCTIONS ON REVERSE SIDE

Darrell Dunn

From: Fred Anderson [fanderson@ihiswt.com]
Sent: Monday, December 02, 2002 3:17 PM
To: 'ddunn@swri.org'
Cc: Ralph Williams
Subject: PT of root weld pass

Darrel

Sorry for the delay in our response. We can provide a Tech and Materials for performing PT on the 24-inch as early as tomorrow morning. We estimate that the preparation, examination, and data results will require 2 hrs of labor at \$88/hr. With labor and material, The estimated cost for services is \$200.00

We will use one of our qualified procedures which was written to the 1992 ASME Section V Code.

Let me know your schedule.

Regards

Fred

Fred Anderson
Manager, Industrial Services
IHI SouthwestTechnologies, Inc.
Ph 210-256-4108 Fx 210-521-2311
fanderson@ihiswt.com

No requisition is available for the record you have requested.
624998

Purchase Order # 370212N

Vendor: AN-TECH LABORATORIES

Order Date: 11/22/02

Due Date: 11/22/02

LN	ORD	REC	ACC	REC	SHIP	TOT	
<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		UPS	\$352.00	SERVICE PURCHASE ORDER
Total						\$352.00	

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q49 Q12 Q20 P12



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

11/19/02

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

✓ 624998

SUGGESTED OR PREVIOUS SUPPLIER

An-Tech Laboratories

CITY, STATE

Houston, TX

ATTN:

Donald Derrick

PHONE

713/664-7501

FAX

DELIVER TO

D. Dunn/bldg. 57

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
			NDE & destructively test plate #751 for PQR C22-GTAW-GMAW per 1998 ASME Section IX as follows:						
A	1	EA	RT inspect	20	06002.01	.081	100	11/30/02	50.00
B	2	EA	Machining reduced section tensile specimens	20	06002.01	.081	100	11/30/02	60.00
C	4	EA	Machining side bend specimens	20	06002.01	.081	100	11/30/02	35.00
D	2	EA	Test tensile specimens yield by Extensometer	20	06002.01	.081	100	11/30/02	22.00
E	4	EA	Test side bend specimens	20	06002.01	.081	100	11/30/02	12.00
			Quality affecting purchase.						

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: Q49, Q12, Q20

c INSPECTION CRITERIA

PI to inspect per QAP-016

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.

Darrell Dunn

6090

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

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
1 10/02	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D.DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC		EA	01/13/03	01/13/03	10.0000	115.7500	\$1,157.50
	CREVICE CORROSION TEST SPECIMENTS 20-04238-01-002-001, REV. 01. MACHINED FROM ALLOY 825 PLATE Req: 637639 Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081 QUALITY & TECHNICAL REQUIREMENTS: SPECIMENS AS PER CNWRA DREAWING 20-04238-01-002-001, REV. 01. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA 20-04238-01-002-001, REV. 01 IS REQUIRE. THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____ DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road

San Antonio, TX 78238-5166

Purchase Order: 382830S

Page: 2

Date Printed: 12/20/2002

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
12/20/02	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D.DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.							
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510						PO Total Amt:	\$1,157.50
	<div>Authorized Signatures</div>							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 12/16/02	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ 637639
DELIVER TO D. Dunn/bldg. 57		PURCHASING SELECTED SUPPLIER	
SHIP VIA			
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

SUGGESTED OR PREVIOUS SUPPLIER

Texas Toolmakers

CITY, STATE

ATTN:

Mike Ridgway

PHONE

494-3551

FAX

494-6139

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	10	EA	Crevise corrosion test specimens						
			20-04238-01-002-001, Rev. 01.						
			Machined from Alloy 825 plate	20	06002.	01.001	100	1/13/03	115.75
			Attached quote and CNWRA drawing						
			20-04238-01-002-001, Rev. 01 with						
			modified specimen thickness.						
			Quality & Technical Requirements: Specimens as per CNWRA drawing 20-04238-01-002-001, Rev. 01.						
			Dimensional inspection per dimensions and tolerances identified in CNWRA drawing 20-04238-01-002-001,						
			Rev. 01 is required.						

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 CONSUMABLE
- b ☐ G-2 DELIVERABLE
- c ☐ G-3 ACCOUNTABLE / REPORTABLE
- d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?
- ☐ YES
- ☐ NO

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

b QA CODES: Q11

c INSPECTION CRITERIA

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.

Darrell Dunn
DEPT / DIVISION APPROVAL6090
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

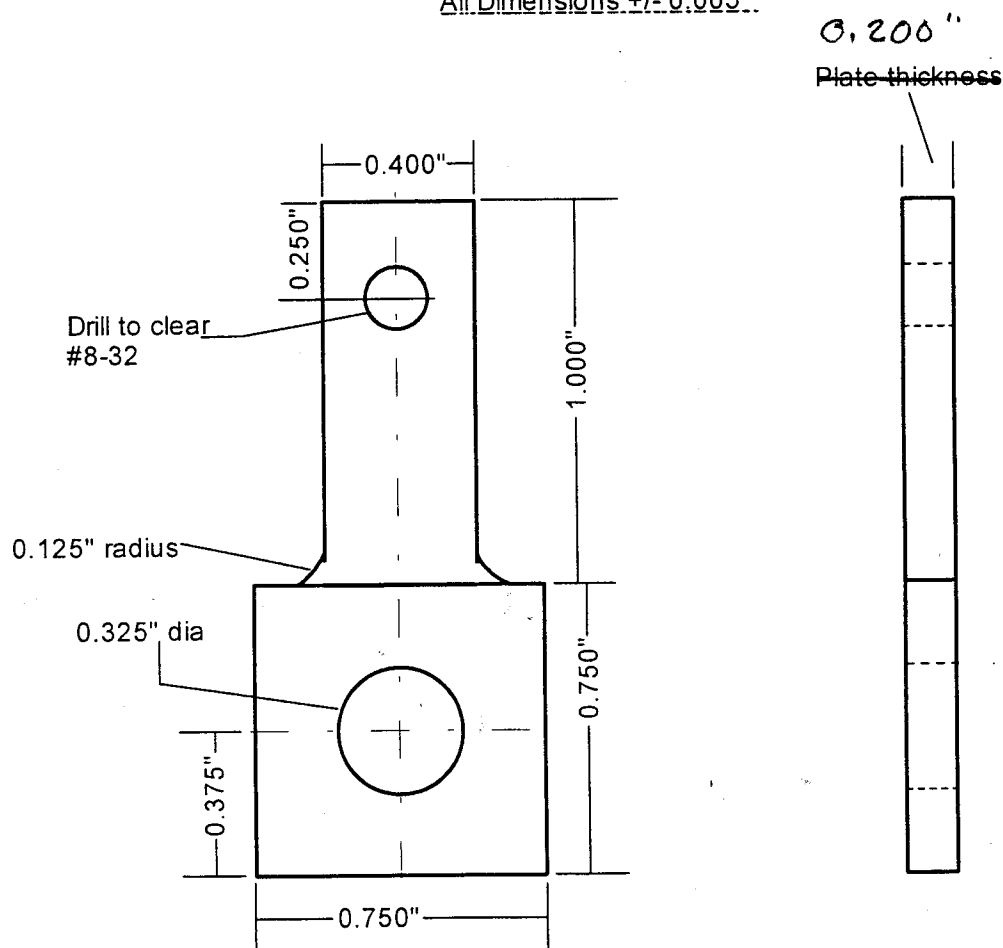
DATE

SEE INSTRUCTIONS ON REVERSE SIDE

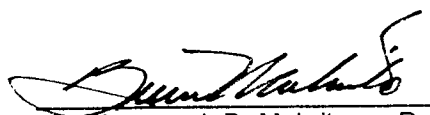
Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

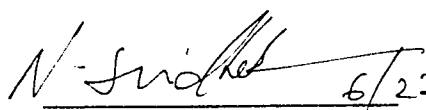
SwRI DRAWING # 20-04238-01-002-001 rev 01

Thin Crevice Repassivation Specimen
All Dimensions +/- 0.005"



 6/22/2001
Initiator: D. Dunn Date

 6/22/2001
QA Approval: B. Mabrito Date

 6/23/01
Reviewer: N. Sridhar Date

Texas Toolmakers, Inc.

11411 E. Coker Loop / San Antonio, TX 78216

Phone: (210) 494-3651

Fax: (210) 494-6139

CUSTOMER WORK ORDER / QUOTE

Job No.:	Quote No.:	Date Opened:	Delivery Date:	Customer No.:	Job Taken/Quoted by:
	2101			01111	MIKE RIDGWAY
Customer:				Quote Good For:	Terms:
SOUTHWEST RESEARCH INSTITUTE				90 DAYS	½% 10 NET 30
6220 CULEBRA				Customer P.O.:	Contact:
SAN ANTONIO, TX 78238				Phone No.:	Fax No.:
				210 522-6090	522-5184

Item	Qty	Part No.	Rev	Part Name	Bid	T&M	Price Ea.	Total
1	10	20-01402-571-006	1	CREVICE REPASSIVATION			140.75	\$1,407.50
				SPECIUM,				\$ 0.00
2	10	20-04238-01-002-001	1	CREVICE REPASSIVATION			115.75	\$1,157.50
				SPECIUM				\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
							Total	\$2,565.00

Work Instructions:

FOB: TEXAS TOOLMAKERS, INC.

Page/Sheet ____ of ____

Quality Requirements: ☐ None ☒ As noted below SWRIMaterial/Process Certification: ☐ Yes ☐ No | Certificate of Compliance: ☐ Yes ☐ No | Source Inspection ☐ Yes ☐ NoDocumented Dimensional Inspection: ☐ Yes ☐ No; If Yes: 1) ☐ Specified Dimensions Only, 2) ☐ Sampling, OR 3) ☐ 100%Authorized TTI Representative: Mike Ridgway

Date: 12/5/02

Customer Acceptance:

Title:

Date:

Customer Comments (if applicable):

Note: price(s) may be affected if scope of work/inspection is deviated from that quoted.

For TTI Use Only

Reviewed by:

Date:

P.O. provided at time of review:

☐ Yes ☐ No

6220 Culebra Road
San Antonio, TX 78238-5166

126378

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Page: 1
Date Printed: 11/11/2002

Contact: Marco 802 295-9373

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
11/02	Jerome Smith	NET 30	SHIPPING POINT		UPS	E.PEARCY/B189/2ND FLOOR		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST

	* CONFIRMATION *							

	This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC STANDARD POLISHED THIN SECTIONS (MADE FROM JOSEPHINITE SAMPLE SUPPLIED)		EA	11/18/02	11/18/02	2.0000	40.0000	\$80.00
	Req: 600594							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
	ACCEPTANCE BASED ON INSPECTION BY SPTICAL MICROSCOPY BY PI UPON RECEIPT, IN ACCORDANCE WITH QAP-016.							
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							
	DATE: _____							
	"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."							

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 399682L

Page: 2

Date Printed: 11/11/2002

Order To: MINERAL OPTICS LABORATORY
29 A STREET
WILDER, VT 05088

126378

Contact: Marco 802 295-9373

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO	
11/02	Jerome Smith	NET 30	SHIPPING POINT		UPS	E.PEARCY/B189/2ND FLOOR	
LINE	ITEM/DESCRIPTION	REV	DUE U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510					PO Total Amt:	\$80.00
	<div>Authorized Signatures</div>						



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE

ORDER DATE

PURCHASE ORDER NUMBER

REQ. NO.

11/5/02

600594

SUGGESTED OR PREVIOUS SUPPLIER

DELIVER TO

PURCHASING SELECTED SUPPLIER

Mineral Optics Laboratory

CITY, STATE

SHIP VIA

29 "A":Street

ATTN:

F.O.B.

P.O. Box 828

SUPPLIER CODE

ATTN

PHONE

TERMS

PHONE

FAX

Wilder, Vermont 05088

302 295-9373

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	2	each	Standard Polished Thin Sections (Made from Josephinite sample supplied)	20	06002.01	081	100		\$40.00
Acceptance based on inspection by optical microscopy by PI upon receipt, in accordance with QAP-016.									

INTERNAL NOTES TO BUYER

SPECIAL INSTRUCTIONS TO SUPPLIER

Deliver to: E. Percy Bldg. 189 2nd Fl

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:

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED)

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.

English, Percy

5540

DEPT. / DIVISION APPROVAL

DATE

Gustavo Craguolino/Vijay Jain

11/8/02

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

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road
San Antonio, TX 78238-5166

Purchase Order: 382425S

Page: 1

Date Printed: 10/18/2002

Order To: TEXAS TOOL MAKERS
11411 E. COKER LOOP
SAN ANTONIO, TX 78216

100987

Ship To: SOUTHWEST RESEARCH INSTITUTE
6220 Culebra Road
San Antonio, TX 78238-5166

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
10/02	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	D.DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC C-22 WELD SPECIMENS CNWRA DRAWING 20-06002-01-081-001 Req: 624983 Prime Contract #: NRC0202012 AOP: 704-000 1.20		EA	11/01/02	11/01/02	4.0000	1,150.0000	\$4,600.00
2	MISC QUALITY AND TECHNICAL REQUIREMENTS: SPECIMENS MACHINED AS PER CNWRA DRAWING 20-06002-01-081. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20-06002-01-081-001 IS REQUIRED. SPECIMENS CUT FROM ALLOY 22 PLATE PER 20-06002-01-081-002. ATTACHED DRAWINGS AND QUOTES. Req: 624983 Prime Contract #: NRC0202012 AOP: 704-000 1.20 PI TO VERIFY INSPECTION THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS. AGREED & ACCEPTED: _____		EA	11/01/02	11/01/02	1.0000	0.0000	\$0.00

Order To: TEXAS TOOL MAKERS
 11411 E. COKER LOOP
 SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
18/02	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	D.DUNN/B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	DATE: _____ "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS." SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS. Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510 _____ Authorized Signatures							
							PO Total Amt:	\$4,600.00

PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

Gina Silvers

DEPARTMENT

REQUISITION DATE 10/11/02	ORDER DATE	PURCHASE ORDER NUMBER 3824255	REQ. NO. 624983
DELIVER TO D. Dunn/bldg. 57		PURCHASING SELECTED SUPPLIER	
SHIP VIA			
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

[illegible]

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL	
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1. Government Project? ☒ YES ☐ NO

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

a ☒ G-1 CONSUMABLE

b ☐ G-2 DELIVERABLE

c ☐ G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

☒ YES

☐ NO

2. QUALITY ASSURANCE? ☒ YES ☐ NO

a. ASL REQUIRED? ☒ YES ☐ NO

b. QA CODES: Q11

c. INSPECTION CRITERIA
PI TO VERIFY INSPECTION.

d. QA APPROVAL (IF REQUIRED) DATE
10/14/01

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.

Darrell Dunn **6090**

DEPT./ DIVISION APPROVAL DATE

[Signature] 10/11/02

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: 10/08/2002
To: Purchasing Department
From: Darrell S. Dunn
SUBJECT: Sole Source Justification
Purchase Requisition: 624983
Project No.: 20.06002.01.081
Recommended Source: Texas Toolmakers

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

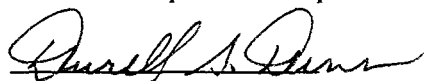
1. Is the recommended source the only source you considered?
☐ Yes ☒ No
- a. If you check yes, why didn't you consider any other sources?
Texas Toolmakers has been used because they are a machine shop on the ASL and have provided services at a competitive price. Texas tool makers has successfully machined previous weld preparation specimens from Alloy 22 in a timely manner with minimal problems.
- b. If you checked no, what other sources did you consider?
Herco

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.)
Texas Toolmakers has machined previous weld procedure qualification specimens. It is advantageous to use the same supplier to machine the weld prep that will be used for test specimens

Why were these other sources ruled out for this purchase?
Herco was originally ruled out because of higher quoted cost estimates
2. What characteristics does this item/company have that are necessary, and that no other item/company has?
Combination of being on the approved supplier list and proven success machining the same material.
3. Remarks:

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

Purchase Requisition Requester:



Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

Alloy 22 vWeld Specimen
CNWRA Drawing 20-06002-01-081-001
Dimensional tolerances as specified
Note: Detail A on Page 2

Page 1 of 2

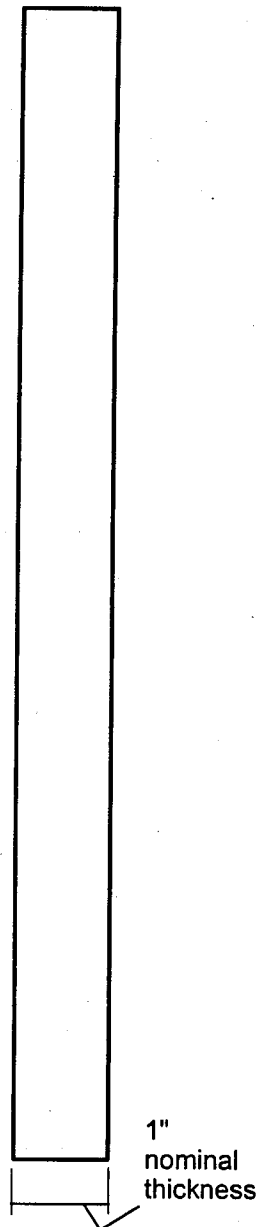
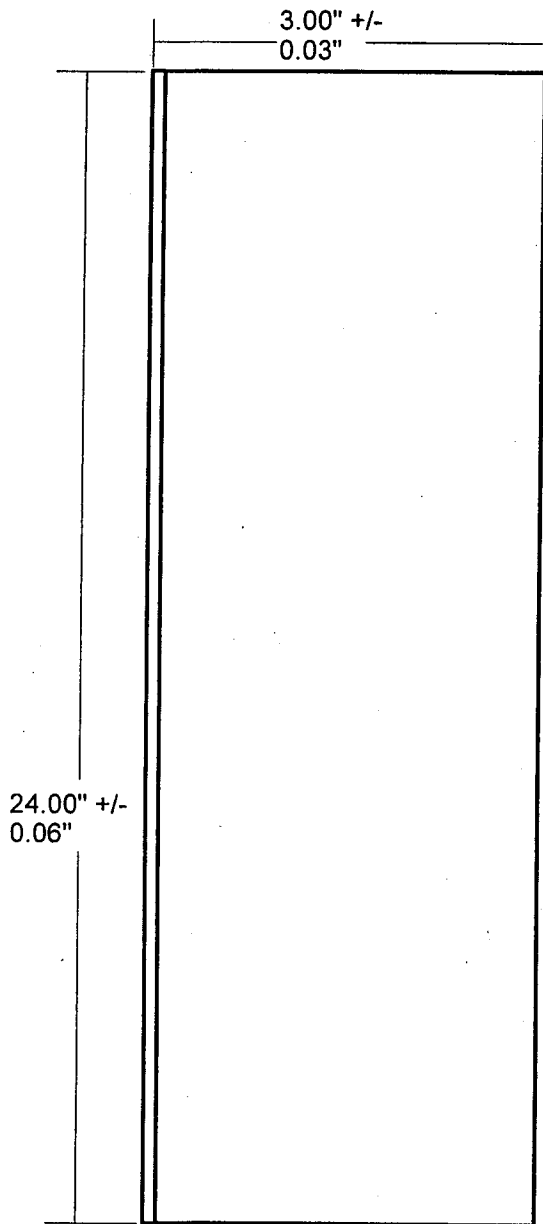
To be completed at time of order:

Material: _____

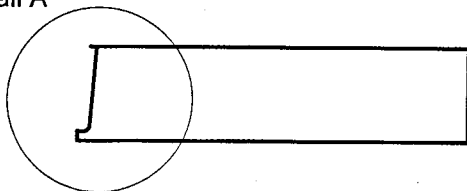
Heat: _____

Specimen Orientation: _____

Other: _____



Detail A



Darrell Dunn 10/7/2002
Initiated by: D. Dunn Date

Vijay Jain 10/7/2002
Reviewed by: V. Jain Date

B. Mabrito 10/7/2002
QA Approval B. Mabrito Date

Darrell S. Dunn
SwRI-CNWRA
Phone: (210) 522-6090
Fax: (210) 522-5184
e-mail: ddunn@swri.org

Alloy 22 Weld Specimen
CNWRA Drawing 20-06002-01-081-001
All Dimensions ± 0.005 "
unless otherwise specified
Detail A identified on Page 1

Page 2 of 2

To be completed at time of order:

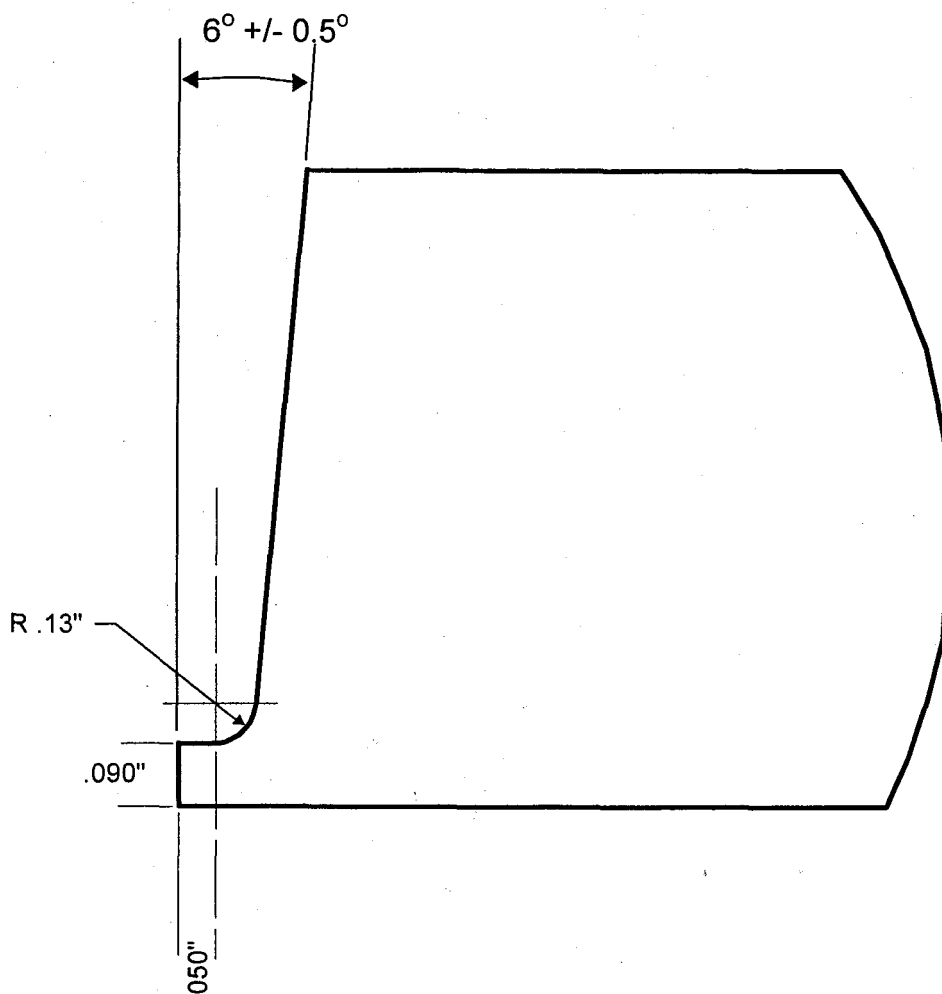
Material: _____

Heat: _____

Specimen Orientation: _____

Other: _____

Detail A



Darrell Dunn 10/7/2002
Initiated by: D. Dunn Date

V. Jain 10/7/2002
Reviewed by V. Jain Date

B. Mabrito 10/7/2002
QA Approval B. Mabrito Date

Texas Toolmakers, Inc.

11411 E. Coker Loop / San Antonio, TX 78216

Phone: (210) 494-3651

Fax: (210) 494-6139

CUSTOMER WORK ORDER / QUOTE

Job No.:	Quote No.:	Date Opened:	Delivery Date:	Customer No.:	Job Taken/Quoted by:
	1964		2-3 WEEKS ARO	01111	MIKE RIDGWAY
Customer:			Quote Good For:	Terms:	
SOUTHWEST RESEARCH INSTITUTE			90 DAYS	½% 10 NET 30	
6220 CULEBRA			Customer P.O.:	Contact:	
SAN ANTONIO, TX 78238			Phone No.:	Fax No.:	
			210-522-6090	210-522-5184	

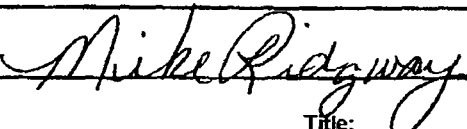
Item	Qty	Part No.	Rev	Part Name	Bld	T&M	Price Ea.	Total
1	4	20-06002-01-081-001 ALLOY		22 WELD SPECIMEN			1150.00	\$4,600.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
								\$ 0.00
Work Instructions:								Total \$4,600.00

FOB: TEXAS TOOLMAKERS, INC.

Page/Sheet ____ of ____

Quality Requirements: ☐ None ☒ As noted belowMaterial/Process Certification: ☐ Yes ☒ No | Certificate of Compliance: ☒ Yes ☐ No | Source Inspection ☐ Yes ☒ NoDocumented Dimensional Inspection: ☒ Yes ☐ No; If Yes: 1) ☐ Specified Dimensions Only, 2) ☐ Sampling, OR 3) ☒ 100%

Authorized TTI Representative:



Date: 10/8/02

Customer Acceptance:

Title:

Date:

Customer Comments (if applicable):

Note: price(s) may be affected if scope of work/inspection is deviated from that quoted.

— For TTI Use Only —

P.O. provided at time of review:

Reviewed by:

Date:

☐ Yes ☐ No