S	A CONTRACTOR OF THE PARTY OF TH	PUR	CHASE REQUISIT	TON		REQUISITI	ON DATE ORDE		DEPARTMEN ORDER NUMBER	T	REQ. NO.	
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CITY, ST						SHIP VIA						
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LN.	QTY.	UNIT	1 - 000-	DESCRIPT		7.0	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
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<u> </u>		Pkg		nutrient by			sulfovibrio	06002.01.	081	100	6/12/03	15.85
В	12	Pkg	tubes pe	er pkg, vibr	io, 9 ml p	er tube	20	06002.01.	081	100	6/12/03	13.85
G	27	Pkg	1	nutrient ag per pkg, v	~	5% NaCl	20	06002.01.	681	100	6/12/03	7.40
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		1	and	will	CONSIST	a	Success	Fully C	ul Tun	~9	The	
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ł	L NOTES TO BUY		1111			SPECIAL IN	ISTRUCTIONS TO SUPPLIER	3			TOTAL	·
	Government Pro			2. QUALITY ASS	URANCE? XES	NO	3. SOURCING NOT	TÉS		4.	lI REPAIRS	*
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	a XXG-FCO	NSUMABLE		b QACODES:	Q1, Q7,	013		ESTED A SUPPLIER, AND EDS, PLEASE ATTACH A M			YES NO IS THE REPAIR ON OR	OFF CAMPUS?
	b G-2 DE	LIVERABLE		product s	heet data	-	REQUESTOR'S SIGNAT	TURE	EXT. NO.		ON OFF	
			REPORTABLE	c INSPECTION			Mietai Yan		2483 DATE	c	IF OFF CAMPUS PROVI	DE SHIPPING TICKET
	d IS GOVT. PRO SUPPLIER?	PERIY BEING	I SENT TU	d QAAPPROV	AL (IF REQUIRED)	DATE	Mercy	Man Har	6 14 03		NO	
1 (2004)	YES			Dolue	Make	6412/	23	w horas			·	
CONTRA	CT REVIEW APPR	ROVAL		DATE	BUYER SIGNATURE			DATE			SEE INSTRUCTIO	NS ON REVERSE SIDE

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383987S

Page: 1
Date Printed: 08/07/2003

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 V	IA DE	LIVER TO
′ <u>′06/</u> 03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Du	nn/bldg. 57
LINE	ITEM/DESCRIPTIO		U/M DATE		UANTITY	NET UNIT COST	EXTENDED COST
1 M X d	*********************** This is a rated order or requirements of the Definition of the Page 1. The Supplier shall furnish Requirements of the Fabruary of t	C O ************** ertified for nate ense Priorities rawing 20-06002-2277-8-3175. Priorities 012 Priorities DER TERMS AND COA PHOTOCOPY ACKNOWITH IS CONSIDER ACCOUNTED FOR INTERAL PURCHASE ORITIONAL INSERTIONAL INSERTI	N F I R M A T I C **************** tional defense use Allocations Syste EA 08/13/03 -01-081-005 machin Attached quote and Req: 030020 QC Insp Re Ciority: NONE 06002.01.081 DNDITIONS ATTACHED NOWLEDGING ORDER W ONTRACT NUMBER, THE RED GOVERNMENT-FUR N ACCORDANCE WITH DER TERMS AND CONE PECTION DATA VERIF	O N ********** e, and the Cont: 08/13/03 ne d CNWRA 082 equired O ARE MADE A PAI OITHIN FIVE (5) MEN ANY ENISHED FAR, OITIONS	*********** ractor shall 15 CFR Part 10.0000 RT OF THIS C WORKING DAY	**************************************	\$858.50

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383987S

Page: 2
Date Printed: 08/07/2003

Order To: TEXAS TOOL MAKERS

11411 E. COKER LOOP SAN ANTONIO, TX 78216

ontact:	MIKE RIDGEWAY						
ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
06/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Du	ınn/bldg. 57
INE	ITEM/DESCRIPTION	REV	DUE U/M DATE	DESIRED Q	UANTITY NET	UNIT COST	EXTENDED COST
	Bill To: SOUTHWEST RESEARCH INSTITUTE.O. Drawer 28510 Attention: Accounts Payables San Antonio, TX 78228-0510	le		*	PO 1	Total Amt:	\$858.5
	Authorized Signature	(s)					
			¥				

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383903S

Page: 1 Date Printed: 07/23/2003

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

Contac	ct:	MIKE RIDGEWAY							
ORDI	ER								
DAT	E.	BUYER	TERMS	FOB	SALES OR	DER SH	P VIA	DE	LIVER TO
123/	/03	Jimmie Silvers	.5% 10	DEST		YOUR '	RUCK	Darrell Du	nn/bldg. 57
to at				DUE	DESIRED				
LINE		ITEM/DESCRIPTION		U/M DATE	DATE	QUANTIT:		UNIT COST	EXTENDED COST
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		SUPPLIER SHALL FURNISH D REQUIREMENTS OF THE FABR			FYING COMPL	IANCE WITH I	HE		
<u> </u>							İ		

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

ORDER					T		······································
DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
'23/03	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	Darrell Du	ınn/bldg. 57
INE	ITEM/DESCRIPT]	ION REV	DUE 7 U/M DATE	DESIRED DATE Q	UANTITY NET	UNIT COST	EXTENDED COS
	Bill To: SOUTHWEST RESEARCH IN P.O. Drawer 28510 Attention: Accounts Po San Antonio, TX 78228	STITUTE ayable	O/H DAIL		*	Total Amt:	\$2,990.0
	Authorized Signa	ture(s)					
			j.				

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383908S

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Page: 1
Date Printed: 07/23/2003

Order To: HAYNES INTERNATIONAL, INC.

NORTHWOODS INDUSTRIAL PARK WEST

12241 F.M. 529 HOUSTON, TX 77041 Ship To: SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road

San Antonio, TX 78238-5166

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

ORDI	. !							
DAT	E	BUYER	TERMS	FOB	SALES ORD	ER SHIP V	IA DE	LIVER TO
′23/	′03	Jimmie Silvers	NET 30	SHIPPING POINT		MOTOR FRE	IGHT Darrell D	unn/bldg. 57
LINE		ITEM/DESCRIPTION		U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COS
	*	**************************************	C O N *************** ertified for nati	NFIRMATIO ************************************	N ************************************	*************** ontractor shall	* ******* follow all	
1	MIS All	SC loy C-22 plate, 1 inch th	nick, 2 feet wide	PCS 08/08/03 and 2 feet long Req: 030015 QC Insp Re	05	2.0000	1,432.2000	\$2,864.4
ł	Pr	rime Contract #: NRC02020 AOP: 704-000 1.20)12 Pri	ority: NONE 06002.01.081				
2	MIS All g	GC loy C-22 plate, 0.5 inch	thick, 2 feet wi	PCS 08/08/03 de and 4 feet lo		2.0000	1,463.0000	\$2,926.0
				Req: 030015 QC Insp Re				
	Pr	rime Contract #: NRC02020 AOP: 704-000 1.20	12 Pri	ority: NONE 06002.01.081				
3	MIS All ong	oy C-22 plate, 0.5 inch	thick, 6 inches	PCS 08/08/03 wide and 2 feet		1.0000	184.8000	\$184.8
				Req: 0300150 QC Insp Red				
	Pr	rime Contract #: NRC02020 AOP: 704-000 1.20	12 Pri	ority: NONE 06002.01.081			į	

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383908S

Page: 2

Date Printed: 07/23/2003

Order To: HAYNES INTERNATIONAL, INC.

NORTHWOODS INDUSTRIAL PARK WEST

12241 F.M. 529 HOUSTON, TX 77041

ORDER						:		
DATE	BUYER	TERMS	FOB	SALES ORD	ER SHIP	VIA	DE	LIVER TO
′23/03	 	NET 30	SHIPPING POINT		MOTOR FF	REIGHT	Darrell Du	ınn/bldq. 57
			<u> </u>	DESIRED				
INE	ITEM/DESCRIPTION	I REV	U/M DATE	DATE	QUANTITY	NET	UNIT COST	EXTENDED COST
	THE GENERAL PURCHASE ORI PLEASE SIGN AND RETURN A					I .		
	AGREED & ACCEPTED:							
	DATE:							
	PROPERTY FURNISHED HEREW PROPERTY WHICH MUST BE A PART 45. REFER TO GENER FOR RISK OF LOSS." MILL TEST REPORT SHALL A FORM OF A PRODUCTION BATSHALL BE PROVIDED. MATH	ACCOUNTED FOR IN RAL PURCHASE ORDE ACCOMPANY EACH LO FCH ANALYSIS OR I	ACCORDANCE WITH ER TERMS AND COND OT OF ITEMS SHIPP JADLE ANALYSIS. C	FAR, DITIONS DED TEST RICHEMICAL AND	OR PHYSICAL			
	Bill To: SOUTHWEST RESEARCH INSTI P.O. Drawer 28510 Attention: Accounts Paya San Antonio, TX 78228-05	able				PO 1	Total Amt:	\$5,975.2
	Authorized Signatur	ce(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

ORDER	MIKE RIDGEWAY						
DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VI	:A DE	LIVER TO
03/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Du	unn/bldg. 57
ENE	ITEM/DESCRIPTIO		U/M DATE		QUANTITY	NET UNIT COST	EXTENDED COS
1 M C	********************* This is a rated order requirements of the De ISC revice corrosion test spoom Alloy 22 plate Prime Contract #: NRC020:	******************* certified for natifiense Priorities	EA 07/18/03 571-027 machined Req: 030008 QC Insp Re COTIONS ATTACHED DWLEDGING ORDER W DITRACT NUMBER, THE ED GOVERNMENT-FUR ACCORDANCE WITH ER TERMS AND COND	********** , and the Cont. m Regulation (07/18/03 f 44 quired ARE MADE A PANITHIN FIVE (5) EN ANY NISHED FAR, ITIONS	ractor shall 15 CFR Part 7 20.0000	follow all 700). 149.5000	\$2,990.

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383789S

Page: 2
Date Printed: 07/03/2003

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
03/0		.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57

03/03	Jimmie Silvers	.5% 10	SHIPPING POINT	OUR TRUCK	Darrell D	unn/bldg. 57
LINE	ITEM/DESCRIPTION	REV	DUE DESIF U/M DATE DAT		NET UNIT COST	EXTENDED COST
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	Authorized Signature	e(s)				
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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 366967M

Page: 1

Date Printed: 06/16/2003

Order 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

ORD: DAT	프리카 계속된 사람이 하는 사람들은 사람이 되었다. 이 분족하였다.	TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
16.	/03 Mary Hernandez	NET 30	SHIP POINT		FEDP-1 COLLEC	CT YI-MING PA	M/BLDG 57
LINE	ITEM/DESCRIPTION	T-1,1-200 4	U/M DATE	A CONTRACTOR OF THE PROPERTY O	. S	ET UNIT COST	EXTENDED COST
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1	MISC X-RAY PHOTOELECTRON SPECTRO A HAYNES NI-FE ALLOY, BOTH TREATED, TO DETERMINE THE T STATE OF THE SURFACE LAYER. & 26 2003	NON-TREATED AND THICKNESS, COMPOS	ELECTROCHEMICALL SITION, AND OXIDA	ID Y TION	1.0000	2,400.0000	\$2,400.00
			Req: 639556				
	Prime Contract #: NRC02020 AOP: 704-000 1.20		ority: NONE 06002.01.081				
	QUALITY & TECHNICAL REQU MEMBER WILL SUPERVISE TH NOTEBOOK NO. 539.						
	THE GENERAL PURCHASE ORD PLEASE SIGN AND RETURN A					R.	
	AGREED & ACCEPTED:						
	DATE:						
	"IF THIS ORDER INCLUDES PROPERTY FURNISHED HEREW PROPERTY WHICH MUST BE A PART 45. REFER TO GENER	TTH IS CONSIDERE CCOUNTED FOR IN	D GOVERNMENT-FUR ACCORDANCE WITH	NISHED FAR,			

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 366967M

Page: 2
Date Printed: 06/16/2003

Order To: RBD ENTERPRISES, INC

563 S.W. 13TH ST. SUITE 201

BEND, OR 97702

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
16/03	Mary Hernandez	NET 30	SHIP POINT		FEDP-1 COLLECT	YI-MING PA	AN/BLDG 57
INE	ITEM/DESCRIPTION FOR RISK OF LOSS."	REV	DUE U/M DATE	DESIRED DATE Q	UANTITY NET	UNIT COST	EXTENDED COST
	CNWRA Quality Assurance performance of your staft to scientific and engine will be accepted based of staff member and will be meet CNWRA requirements. periodic review and must Room, or invoice remittated access to your facility with the possiblility of documentation requirement the CNWRA with the product requirements of this pur CNWRA Director of QA at Bill To: SOUTHWEST RESEARCH INSTITE.O. Drawer 28510 Attention: Accounts Paya San Antonio, TX 78228-05	if members' work ering software as an evaluation ereturned for reached at the returned at the confirm effects shill be specificated. The Seller states order; fur (210) 522-5149. TUTE ble 10	will be provided and must be followed by the CNWRA Prince work at Seller's notebooks are utilithe conclusion on the conclusion of the conc	Necial CNWRA wed. Your organcipal Investige expense if the lized, they are found from the Cly, there shall tion of the quasurveillances. haes order and A QA of any non	requirements a inization's product or technical product does not be subject to subject any special will be supplied conformance to sess directed by	pply uct al ot s d to the	\$2,400.00

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	Bend, OR	9770	2	,							
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				& Technical Requireme							
-			supervis	e the vendor staff to	obtai	n data and doc	ument results in	Scientif	ic Not	ebook No. 5	<u> </u>
	1.		URGENT	PLEASE RUSH!!!							
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	Government Pro		-	2. QUALITY ASSURANCE? YE	NO NO	3. SOURCING N	IOTES LECTED A BRAND NAME OR PA	RTICHI AR MANIHEM		REPAIRS	
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	<u> </u>			b QACODES: QAP-		WILL MEET YOUR	NEEDS, PLEASE ATTACH A MEI	MO OF EXPLANATION	N. b	IS THE REPAIR ON OR	OFF CAMPUS?
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يان نو	NO X			Man Make	×"	"/2003 DV	Man los Bolmon	Wishes			,
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PURCHASING

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	b G-2 D	ELIVERABLE			\ \& \alpha \	20		REQUESTOR'S	SIGNATURE		EXT. NO.			ON OFF	
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563 SW 13th Street Bend OR 97702

Phone Number Fax Number

541-330-0723 541-330-0991 **QUOTE**

Quote # | S

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 DATE

G:\FORMS\JUST-REQ.FRM



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 non-treated), the total cost estimate will be \$7,200.00.

a) 1,462.50 X 4 = 5,850.00

b) 675.00 X 2 = 1,350.00

\$7,200.00

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.).

<u>Depth profile measurement to determine film thickness: \$787.50/profile</u> (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. You 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

Order To: INDUSTRIAL MECHANICAL INC.

5797 DIETRICH ROAD

BOX 200350

SAN ANTONIO, TX 78286

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Ship To: SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road

San Antonio, TX 78238-5166

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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383674S

Page: 2
Date Printed: 06/13/2003

Order To: INDUSTRIAL MECHANICAL INC.

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6220 Culebra Road

San Antonio, TX 78238-5166

Purchase Order: 383674S

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Date Printed: 06/13/2003

Order To: INDUSTRIAL MECHANICAL INC.

5797 DIETRICH ROAD

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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383579S

Page: 1

Date Printed: 05/29/2003

Order 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

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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383579S

Page: 2 Date Printed: 05/29/2003

Order To: WELDERS SUPPLY CO.

5406 JACKWOOD

SAN ANTONIO, TX 78238

107287

Contact: DONALD

Ph: 684-0232

Fax: 684-1445

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CONTRACT REVIEW APPROVAL

SUPPLIER?

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c INSPECTION CRITERIA

Darrell Dunn

ADMÍŇ, APPROVAĽ

DEPT. / DIVISION APPROVAL

DATE DATE

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Detail of Line # 1

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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

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GNWRA 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,

Darrell S. Dunn

Table	1	(C	ont	in	ue	d)
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		•	Weight-Percent a.b															
AWS Classification ^m	UNS Number ^e	С	Mn	Fe	P	s	Si	Cu	Ni ^d	Co	Al	Ti	Cr	Nb plus Ta	Мо	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)

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 @techsiloy.com

UNION, IL UNION, IL (WELDING)

815-923-2131 FAX 815-923-2126 815-923-2131 FAX 815-923-7242



BALTIMORE, MD HOUSTON, TX PERRIS, CA

410-633-9300 FAX 410-633-2033 713-466-1000 FAX 713-466-7425 909-657-2105 FAX 909-943-6081

ALTIMORE WELDING DIV 310 CHESAPEAKE AVE. EL: 410-633-8300	/ISION BALTIMORE, MD FAX: 410-633-2) 21222-409 8 033	CEF	RTIFIED I	MATE	RIAL TE	ST REPORT
SOLD TO				1		-	
CUSTOR	CERTIFIED MATERIAL TEST REPORT SOLD CUSTOMER'S PO NO. TYPE OF CERT CUSTOMER TECHALLOY ORDER NO. WORK ORDER DATE SHIPPED ACTUAL /Lot ACTUAL ACTUAL ACTUAL ACTUAL /Lot ACTUAL ACTUAL ACTUAL /Lot ACTUAL ACTUAL ACTUAL /Lot ACTUAL ACTU						
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SPECIFICATIONS: ANS/SPA 5.14 CERTIFIED BY CMB Techalloy 622 .0938 36*Printed CHEMICAL ANALYSIS CHEMICAL ANALYSIS NI C MN P S SI CR 57.50 .003 .34 .003 .001 .02 .22.24 MO FE V CU CD W 13.70 2.37 .01 .01 .41 3.13 MECHANICAL PROPERTIES Tocritify the chemical analysis and physical and mechanical rest results reported above are correct as contained in the records of the company. Very work your. Trickelloy The Company of the chemical analysis and physical and mechanical rest results. The Company of the chemical analysis and physical and mechanical rest results. The Company of the chemical analysis and physical and mechanical rest results. The Company of the chemical analysis and physical and mechanical rest results. The Company of the chemical analysis and physical and mechanical rest results. The Company of the chemical analysis and physical and mechanical rest results. The Company of the Company of the Company of the Company of the Company. The Company of the Company of the Company of the Company. The Company of the Company of the Company of the Company. The Company of the Company of the Company of the Company. The Company of the Company of the Company of the Company. The Company of the Company of the Company of the Company. The Company of the C							
I certify the chemic reported above are	cel enalysis and physic correct as contained	in the records of the	e company.	Pess	my (4) .	-

Speni Pom; 407;GERTHICAT. D1/28/02

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

LN ORD REC ACC REC SHIP TOT

NOQTYQTYQTYDATEVIAAMTDESCRIPTION1100N/A\$440.00SERVICE PURCHASE CRDER

Total \$440.00

NOTES: (none)

FOOTNOTES: P8 P9 P10 P12 P90 Q20 Q12

S	700	PUR	CHASE RE	QUISITION		DEPARTMENT REQUISITION DATE ORDER DATE PURCHASE ORDER NUMBER REQ. NO. /									
R	so so	UTHWES	T RESE	ARCH INSTITUTE		5/9	2021 - 811 See	ER DATE PURCHASE C	ORDER NUMBER		REQ. NO.	39551			
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	Fred Ar	derson		grafié politic											
PHONE		•		FAX		TERMS			PHONE		FAX				
	<u> 256-4108</u>			521-2311											
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i			at -£M	90 with P.O. #	•	2. 22		1			TOTAL				
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	a _X G-1 CO	NSUMABLE		b QACODES	© Q20, Q12		IF YOU HAVE SUGG	GESTED A SUPPLIER, AND I		R	YES NO	OFF CAMPUS?			
	<u> </u>	ELIVERABLE			Q20, Q12		REQUESTOR'S SIGNA	TURE	EXT. NO.	- *	b IS THE REPAIR ON OR OFF CAMPUS? ON OFF				
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»i	d IS GOVT. PRO SUPPLIER?	OPERTY BEING	SENT TO	QAP-016	6		My CY	DOVAL	S/9/03						
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"											SEE INSTRUCTIO	NS 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 Fav. 408-782-3031

Contact:	VICKIE Ph: 408-782-	7557 Fax: 408	-782-3031				
ORDER DATE	BUYER	TERMS	FOB	SALES OR	DER SHIP V	LA DEI	LIVER TO
12/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YAN	G B57
LINE	ITEM/DESCRIPTION	7 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	* * * * * This is a rated order corquirements of the Defe	C 0 ******* ertified for na	NFIRMATIO ************** tional defense use	N ******** , and the	**************************************	* ************** follow all	
A	ISC S-888B MODIFIED BAAR'S BROUBE, DESULFOVIBRIO	OTH, 10 TUBES P	PK 07/07/03 ER PKG, 9ML PER	06/12/03	20.0000	15.8500	\$317.00
			Req: 639555				
	Prime Contract #: NRC02020 AOP: 704-000 1.20		riority: NONE 06002.01.081				
A	ISC S-889B NUTRIENT BROTH, 1.5 ML PER TUBE	5% NAC1, 10 TUB	PK 07/07/03 ES PER PKG, VIBRIO		24.0000	13.8500	\$332.40
			Req: 639555				
	Prime Contract #: NRC02020 AOP: 704-000 1.20		riority: NONE 06002.01.081	,			
	THE GENERAL PURCHASE ORI PLEASE SIGN AND RETURN A						
	AGREED & ACCEPTED:						
	DATE:						
	"IF THIS ORDER INCLUDES PROPERTY FURNISHED HEREW				·		

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 359368K

Page: 2
Date Printed: 06/13/2003

Order To: ANAEROBE SYSTEMS

15906 CONCORD CIRCLE MORGAN HILL, CA 95037

506523

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

ORDEF DATE		TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
- ′ <u>12/0</u>	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YAN	IG B57
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	PROPERTY WHICH MUST BE PART 45. REFER TO GENE FOR RISK OF LOSS." SUPPLIER SHALL SUPPLY A NOT BE PAID UNTIL A CER MATERIAL SAFETY DATA SH THE CONTENT OF THE MSDS SELLER IS TO PROVIDE SU CONDUCT INSPECTION AND	RAL PURCHASE ORI CERTIFICATE OF TIFICATE OF COME EET(S) (MSDS) MU IS REQUIRED TO	COMPLIANCE WITH TO PLIANCE HAS BEEN FOR THE SUPPLIED UP BE IN COMPLIANCE	OITIONS THE PURCHASED I RECEIVED. PON FIRST SHIPM WITH 29CFR 191	ENT OF THE PRO 0. 1200(9)	DDUCT.	
	Bill To: SOUTHWEST RESEARCH INST P.O. Drawer 28510 Attention: Accounts Pay San Antonio, TX 78228-0	able				PO Total Amt:	\$649.4
	Authorized Signatu	re(s)					
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S	T	HASE REQUISITION	REQUISITION		DATE PURCHASE OF	DEPARTN RDER NUMBER	IENT	REQ. NO	
SO SO	UTHWEST	RESEARCH INSTITUTE _{TM}	6/11	/03				Yb	39555
SUGGESTED OR PREVIO	OUS SUPPLIER		DELIVER TO		PU	IRCHASING SELECT	ED SUPPLII	ER.	
Anaerobe :	Systems_		Liet	ai Yang/bldg.	. 57				
CITY, STATE			SHIP VIA						
Morgan Hi	11, CA		F.O.B.		SI	PPLIER CODE	100 Table 100 Table	ACTN	
Jeremy Mcl	Donald								entre de la companya
PHONE	DOUALU	FAX	TERMS		PH	ONE		FAX	
408/782-75	557 n	408/782-2031							
LN. QTY.	UNIT	DESCRIPTION		ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
		AS-888B modified Baar's brot	jeb=10	20	06002.01.	081	100	6/12/03	15.85
	Pkg	tubes per pkg, 9 ml per tube					200	V, 12,03	
94	707	AS-889B nutrient broth, 1.5%			[*]				
В 34	Pkg	10 tubes per pkg, vibrio, 9	ml per t	ube 20	06002.01.	081	100	6/12/03	13.85
		Quality & technical Requirem			_				Bh
		MCCGMANCE 1351 WITT	1 6	- for the	16 6	turi.	7	7	
		Acceptance TEST will and will consist of microbes of inter	a= 57.	64-	any cac	7			
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		SH, CALL L. YANG WITH P.O.#	SPECIAL INST	HOUTIONS TO SUFFEIEN				TOTAL	
1. Government Pro	oject? YES	PROPERTY NOF PROP. 2. QUALITY ASSURANCE? YES PROPERTY A ASL REQUIRED? YES D Q A CODES: Q1, Q7, Product data sheet C INSPECTION CRITERIA		TURER, WOULD AN EXTENSION OF YOUR NEED? YES	TED A BRAND NAME OR PAP QUIVALENT BRAND OR PRO STED A SUPPLIER, AND NO EDS, PLEASE ATTACH A MEM URE	DUCT ALSO SATISF O OTHER SUPPLIE	a R I b	REPAIRS IS THIS REQ. FOR A REF [YES] NO IS THE REPAIR ON OR CO ON OFF IF OFF CAMPUS PROVIDE NO.	OFF CAMPUS?
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					William of			SEE INSTRUCTIO	NS 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

ORDE DATI	병기 살림 [40] 시간 시간 시간 등 발표를 하는 것이 되고 보고 있다.	TERMS	FOB	SALES OR	DER SHIP V	IA DEI	LIVER TO
- '13/	03 Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YAN	G B57
INE	ITEM/DESCRIPTIO		U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	************************************ This is a rated order or requirements of the Def	C O Next to the control of the contr	F I R M A T I O ********* conal defense use Allocations Syste PK 06/17/03	N ******* , and the (m Regulation	**************************************	* ************* follow all	\$190.2
	9 ML PER TUBE, DESULFOVIBE Prime Contract #: NRC0202 AOP: 704-000 1.20	:012 Pri	Req: 624842 ority: NONE 06002.01.081		**		
2	MISC AS-888A MODIFIED BAAR'S AG	AR, 4 PLATES PER	PK 06/17/03 PKG DESULFOVIBRI Req: 624842		27.0000	7.4000	\$199.8
	Prime Contract #: NRC0202 AOP: 704-000 1.20		ority: NONE 06002.01.081				
3	MISC AS-889B NUTRIENT BROTH, 1. 10 TUBES PER PKG, 9 ML PER		PK 06/17/03	06/12/03	12.0000	13.8500	\$166.2
			Req: 624842				
	Prime Contract #: NRC0202 AOP: 704-000 1.20		ority: NONE 06002.01.081				
4	MISC AS-889A NUTRIENT AGAR WITH	1.5% NAC1 4 PLAT		06/12/03	27.0000	7.4000	\$199.80

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 359375K

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 BUYER DATE TERMS FOB SALES ORDER SHIP VIA DELIVER TO C'13/03 | Ronald Keller 1% 10 SHIPPING POINT FED-X-P1 LIETAI YANG B57 DESIRED DUE LINE ITEM/DESCRIPTION REV U/M DATE DATE OUANTITY 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 SUFFICENT DATA (DRAWINGS, CATALOGS, PRODUCT DATA SHEETS, ETC) TO CONDUCT INSPECTION AND TEST. Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510

6220 Culebra Road

San Antonio, TX 78238-5166

Purchase Order: 359375K

Page: 3

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	DE	LIVER TO
^/ <u>13/03</u>	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YAI	IG B57
INE	ITEM/DESCRIPTION			DESIRED DATE (N YTITVAUÇ	ET UNIT COST	EXTENDED COST
	Attention: Accounts Paya San Antonio, TX 78228-05				-	PO Total Amt:	\$756.0
	Authorized Signatur	re(s)					
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S	PURCHASE REQUISITION					DEPARTMENT								
R	so	UTHWES	T RESEARCH	HÎNSTITUTE _™	REQUISITIO	ON DATE ORDE	R DATE PURCHASE C	ORDER NUMBER		REQ. NO. 62	4842			
SUGGI	ESTED OR PREVIO	US SUPPLIEF	1		DELIVER TO	January 1	1946 Sentalik (1962-1963) 1	PURCHASING SELEC	TED SUPPL	ER				
Aı	naerobe S	vstems			Lie	tai Yang/bldg	57			a report of the second second				
CITY, S					SHIP VIA	Lietai Yang/bldg. 57 SHPVIA								
	organ Hil	l, ca		<u> </u>										
ATTN:	34 70				F.O.B.			UPPLIER CODE		ATTN "				
PHONE	eremy McDe	onald	FAX		TERMS			HONE		FAX				
4(08/782-75	57	40	8/782-2031										
LN.	QTY.	UNIT		DESCRIPTION		ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE			
				modified Baar's broth,		20	06002.01.	081	100	6/12/03	15.85			
_A	12	Pkg		er take, 9 ml per tube,		ovibrio	× × ×		100	0, 22, 00	13.03			
				modified Baar's agar,		9.0								
Б	27	Pkg		<pre>per pkg, desulfovibrio nutrient broth, 1.5%</pre>		20	06002.01.	081	100	6/12/03	7.40			
C	16	Pkg		nutrient broth, 1.5% s per pkg, vibrio, 9 m		ube 20	06002.01.	081	100	6/12/03	13.85			
			l .	nutrient agar with 1.	-	ave zv	00002.01.	OOL	100	0/12/03	13.63			
D	27	Pkg		s per be g, vibric	Je Maci	20	06002.01	180	100	6/13/03	7.40			
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			and an	11 CONSIST OF	Suce	Cast Villy	Cultur	1~9/	42	michobs	SOF			
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INTERN	IAL NOTES TO BUY	/ED			Tenecial inic	STRUCTIONS TO SUPPLIER								
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-	Government Pro			2. QUALITY ASSURANCE? YES	NO	3. SOURCING NOT	ES		4		<u> </u>			
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	a 🔽 G-1 COI	NSUMABLE					ESTED A SUPPLIER, AND I		R	YES NO				
	h	LIVERABLE		b QACODES: Q1, Q7,	-	WILL MEET YOUR NE	EDS, PLEASE ATTACH A MEI	MO OF EXPLANATION	N. b	IS THE REPAIR ON OR O	OFF CAMPUS?			
		·		product data sheet	only	REQUESTOR'S SIGNAT	URE	EXT. NO.		ON OFF				
	C G-3 ACC	OUNTABLE /	REPORTABLE	c INSPECTION CRITERIA		Lietai Yan		2483	с	IF OFF CAMPUS PROVID	DE SHIPPING TICKET			
d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?			DEPT / DIVISION APPROVAL DATE O 1103											
d QA APPROVAL (IF REQUIRED)			DATE	ADMIN. APPROVAL		DATE		NO	<u> </u>					
0/00	NO NO		. 5	Qu. Male X	19/12/			Labora						
CONTRA	ACT REVIEW APPR	OVAL		DATE BUYER SIGNATURE	70	G TAMOUNA) BATE STAN	UNUS						
린							1			SEE INSTRUCTIO	NS ON REVERSE SIDE			

Purchase Order: 383597S

6220 Culebra Road San Antonio, TX 78238-5166 Page: 1

Date Printed: 06/03/2003

Order To: OFFENHAUSER COMPANY INC

2201 TELEPHONE RD. HOUSTON, TX 77223

512241 Ship To: SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road

San Antonio, TX 78238-5166

ontac	t: :	MIKE MILLER Ph: 713-5	90-2531 Fax: 7	13-928-2465					
ORDE DAT		BUYER	TERMS	FOB	SALES OR	DER SHIP V	TA	DE l	LIVER TO
'03/	03	Jimmie Silvers	NET	 SHIPPING POINT		BEST WAY		DARRELL DU	NN B57
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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383597S

Page: 2 Date Printed: 06/03/2003

Order To: OFFENHAUSER COMPANY INC

2201 TELEPHONE RD. HOUSTON, TX 77223

DATE	BUYER	BUYER TERMS		SALES ORDER	SHIP VI	PA DE	DELIVER TO	
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	DATE:							
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6220 Culebra Road

San Antonio, TX 78238-5166

Purchase Order: 383597S

Page: 3

Date Printed: 06/03/2003

Order To: OFFENHAUSER COMPANY INC

2201 TELEPHONE RD. HOUSTON, TX 77223

ORDI DAT		MIKE MILLER Ph: 713-59 BUYER	TERMS	.3-928-2465 FOB	SALES OF	RDER	SHIP VIA	DE	LIVER TO	
c/ <u>03/</u>	03	Jimmie Silvers	NET	SHIPPING POINT		BEST WAY		DARRELL DUNN B57		
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PURCHASE REQUISITION

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ORDER DATE PURCHASE ORDER NUMBER

REQ. NO.

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'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				14 N				
DATE	BUYER	TERMS	FOB	SALES ORI	DER SHIP V	TA	DE1	LIVER TO
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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 351243J

Page: 2
Date Printed: 04/24/2003

Order To: OFFENHAUSER COMPANY

2201 TELEPHONE RD. HOUSTON, TX 77223

512241

ORDER DATE	BUYER	TERMS	FOB	SALES OR	DER SHIP	VIA DE	LIVER TO
11/24/03	Jesse Lozano	NET	 SHIPPING POINT	1	ŖEST WAY	D DUNN B5	7
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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 ORDER

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

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,	d IS GOVT. PRO SUPPLIER?	PERTY BEING	SENT TO		Ng INSPEC	HON	DEPT. / DIVISION APPR	ROVAL	DATE 4/8/03					
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OFFENHAUSER COMPANY

2201 TELEPHONE RD.

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:

7139282465

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.

Purchas	a Order	# Q	70226N
ruithas	e thaer	<i>m</i> 0	7 UZZUN

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

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											SEE INSTRUCTIO	NS ON REVERSE SIDE

6220 Cwlebra-Road San Antonio, TX 78238-5166 Purchase Order: 382894S

Page: 1 Date Printed: 01/09/2003

Order To: INDUSTRIAL MECHANICAL INC.

5797 DIETRICH ROAD

BOX 200350

SAN ANTONIO, TX 78286

103431

Ship To: SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road

San Antonio, TX 78238-5166

Contac		SONNY ROGERS Ph: 662-4	1516 Fax: 662-	4558						
DAT		BUYER	TERMS	FOB	SALES OR	DER	SHIP V	IΑ	DEI	LIVER TO
197	/03	Jimmie Silvers	NET 30	DEST		v	ENDOR TRU	CK	DARRELL DU	NN/B57
LINE		ITEM/DESCRIPTION		U/M DATE	DESIRED DATE		NTITY		UNIT COST	EXTENDED COST
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	Ρ	rime Contract #: NRC02020 AOP: 704-000 1.20	12 Pr	iority: NONE 06002.01.081	e e	¥*				
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	P	rime Contract #: NRC02020 AOP: 704-000 1.20	12 Pr	iority: NONE 06002.01.081	,					
		THE GENERAL PURCHASE ORD PLEASE SIGN AND RETURN A AGREED & ACCEPTED:	PHOTOCOPY ACKNO	NDITIONS ATTACHED OWLEDGING ORDER W	ARE MADE	A PART (5) WO	OF THIS OF	RDER. S.	,	
	;	DATE:								
		"IF THIS ORDER INCLUDES PROPERTY FURNISHED HEREW PROPERTY WHICH MUST BE A PART 45. REFER TO GENER FOR RISK OF LOSS."	ITH IS CONSIDER! CCOUNTED FOR IN	ED GOVERNMENT-FUR ACCORDANCE WITH	NISHED FAR,					

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 382894S

Page: 2

Date Printed: 01/09/2003

Order To: INDUSTRIAL MECHANICAL INC.

5797 DIETRICH ROAD

BOX 200350

SAN ANTONIO, TX 78286

Contact: ORDER DATE	SONNY ROGERS Ph: 662-4 BUYER	TERMS	FOB	SALES ORDER	SHIP V	IA DE	LIVER TO
J9/03	Jimmie Silvers	NET 30	DEST		VENDOR TRU	JCK DARRELL DU	JNN/B57
LINE	ITEM/DESCRIPTION	TEV REV	DUE U/M DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	SUPPLIER SHALL FURNISH IN REQUIREMENTS OF THE FABRE Your organization will panalyses (CNWRA) in according to scientific and engine will be accepted based of staff member and will be meet CNWRA requirements. Periodic review and must Room, or invoice remittates access to your facility with the possiblility of documentation requirement the CNWRA with the product of the CNWRA with the product of the CNWRA Director of QA at Bill To: SOUTHWEST RESEARCH INSTITUTE. OF DIRECTOR OF THE STATE OF THE STATE OF THE SOUTHWEST RESEARCH STATE OF THE STATE OF TH	provide services rdance with the range of the returned for returned at ance will be with the range will be with the range will be specificated and the services of the services of the returned at ance will be specificated at the services of the services o	to the Center for requirements of year at technical of will be provided and must be followed by the CNWRA Private the conclusion of the co	or Nuclear Wass your quality sy or QA procedure d. Special CNWI owed. Your org incipal Invest: s expense if the ilized, they are of work to the aly, there shall ation of the quality surveillances chaes order and RA QA of any no	ce Regulatory rstem or that es required of the requirement anization's gator or tec the product do re subject to CNWRA QA Rec the "right ality requir Any special will be sup	t of the in the in the its apply product thical ces not cords of ments al pplied to the its interest in the its interest in the interest in the its interest in the its interest in the its interest in the its interest in the its interest in the its interest	\$1,440.00

130	PUR	CHASE REQUISITION	REQUISITION DATE	ORDER DATE PURCHA	DEPART	MENT		
	SOUTHWES	T RESEARCH INSTITUTE	1/7/03	ONDER DATE PONGNA	SË ORDER NUMBER		REQ. NO.	37644
	EVIOUS SUPPLIER		DELIVER TO	E-manufacture (manufacture (man	PURCHASING SELE	ECTED SUPP	LIER	
	al Mechan	ical Company	Darrell D	unn/bldg. 57				
STATE			SHIP VIA					
			F.O.B.		SUPPLIER CODE		ATTN	
	ny Rogers	, Jr.						Thing of the State
E		FAX	TERMS		PHONE		FAX	
62-4596 QTY.		662-4503						
QTY.	UNIT	DESCRIPTION	0	RG PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
4	EA	C22 weld specimens CNWRA draw	ring					-
		20-06002-01-081-001	20	06002.	01.081	100	1/17/03	337.50
1	EA	Delivery of machined specimen	ıs 20	06002.	01.081	100	1/17/03	90.00
					1			
		Quality & Technical Requireme Dimensional inspection per di is required. Specimens cut f	n ss: Specimen	s machined as per (ed in CNWRA	ng 20-0	06002-01-081-0 18 20-06002-0	001. 1-031-001
		Dimensional inspection per di	n ss: Specimen mensions and t rom Alloy 22 p	s machined as per (ed in CNWRA	ng 20-0	06002-01-081-0 18 20-06002-0	001. 1-031-001
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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.

Each

Total

(4ea.) Alloy 22 Weld Specimen

CNWRA Drawing 20-06002-01-081-001

\$337.50ea. \$1,350.00

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 Alloy 22 weld Specimen To completed at time of order: SwRI-CNWRA CNWRA Drawing 20-06002-01-081-001 Material: Phone: (210) 522-6090 Fax: (210) 522-5184 Dimensional tolarances as specified Note: Detail A on Page 2 Heat: e-mail: ddunn@swri.org Specimen Orientation: Page 1 of 2 Other: 3.00" +/-0.03" 24.00" +/-0.06" nominal thickness Detail A Initiated by. D. Dunn Reviewed by W. Jain \$ 10/2/2002 QA Approval B. Mabrito

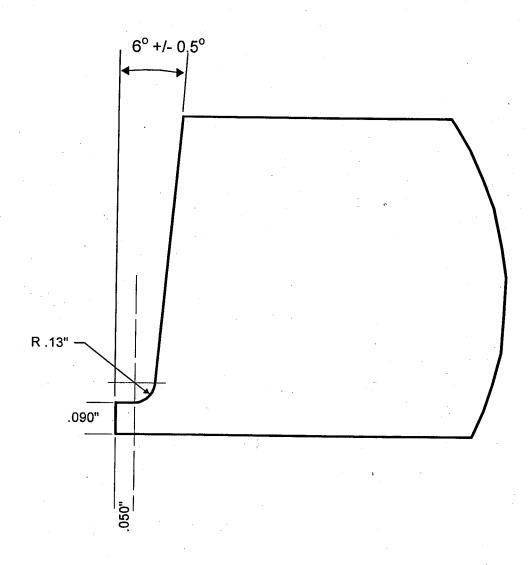
Darrell S. Dunn SwRI-CNWRA Phone: (210) 522-6090 Fax: (210) 522-5184 e-mail: ddunn@swri.org

Alloy 22 3ld 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

<u>To'</u>	completed at time of order:	Ę.
Mate	rial:	· .
Heat		3
Spec	cimen Orientation:	
Othe	r:	

Detail A



Initiated by. D. Dunn

Reviewed by V. Jain

QA Approval B. Mabrito

10/2/2002 Date

Purchase	Order	#	370	021	I8N	

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

SA	_ (DIID	CHASE REQUISI	TION					DEPARTI	MENT		
P						REQUISITION	ON DATE ORE	ER DATE PURCHASE	ORDER NUMBER		REQ. NO.	
	₩ so	JTHWES	T RESEARCH	I INSTITUTE TM		1/	16/03				6 3	37646
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		Heichi	ts, IL 60	130								
ATTN:	GICHGEL	HCIEM!	LS, ILL OU	133	- 1 1	F.O.B.			SUPPLIER CODE		ATTN	
	Bill Sc	rzo	· I=			705						
PHONE			FAX	0/071 FEAO		TERMS			PHONE		FAX	
LN.	0/681-000 QTY.	UNIT	63	0/871-5520 DESCRIPT	ION		ORG	PROJECT	ACCT	**************************************	DATE REQUIRED	EST. UNIT PRICE
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		LIVERABLE	•				REQUESTOR'S SIGN	ATURE	EXT. NO.		ON OFF	
	C G-3 AC	OUNTABLE / F	REPORTABLE	c INSPECTION	N CRITERIA	1	Darrell I		6090	с	IF OFF CAMPUS PROVID	E SHIPPING TICKET
	d IS GOVT. PRO SUPPLIER?	PERTY BEING	SENT TO	MI OND	sprain pr		DEPT. / DIVISION AP	Alm In V. Ja	DATE 16/0	₹		** .
	Y YES			d QA APPROV	AL (IF REQUIRED)	DATE	DMIN. ARPROVAL	-	DATE	<del></del>	NO	· .
	NO			Dun	Malin	X 11/e	3	•				
CONTRA	CT REVIEW APPR	OVAL		DATE	BUYER SIGNATURE	<u> </u>		DATE		-	SEE INSTRUCTION	IS ON REVERSE SIDE

# **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,

Darrell S. Dunn

Table 1 (Continued	I)
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									We	ight-Perc	ent ^{a,b}							
AWS Classification ^m	UNS Number ^c	С	Mn	Fe	P	s	Si	Cu	Ni ^d	Со	AI	Ti	Cr	Nb plus Ta	Мо	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	· <del></del>	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	_	<del>-</del>	0.50

(continued)

AMERICAN FILLER TA PAGE 01

ACTUAL MATERIAL TEST REPORT



6060 Donaha Street . Houston, Taxas 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

20.25

.008

Net Weight: 30.1#

Product:

NB 622 MN

Dimensions: .045 X 30

Heat #:

C

.005

XX1977BG11

Co

.07

Specification: AWS A5.14 ERNiCrMo-10

Samuel Control

Jenn St. The Williams

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Si .06

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Mn

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Tot Others

This certification is provided by American Filler Metals Co. with the understanding that if the product covered the not confirm to the stated specifications, there shall be no gersonal liability of any kind by the undersigned. Furthermore, the obligation and liability of (such nonconformance) 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. consequential damage.

Authorized Representative







ACTUAL MATERIAL TEST REPORT



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	.06	Cr	Fe	Mn
.004		20_62 .5 <	2.25	.25
Mo 13.89	~ Ni 59.73	P S .001/<	Si .	. v _01

Tot Others

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. Eurthermore, 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

Page: 1 Date Printed: 02/27/2003

Order To: CONAM INSPECTION

FORMERLY CONAM KAWIN 194 INTERNATIONAL BLVD. GLENDALE HEIGHTS, IL 60139 103744

Ship To: SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road

San Antonio, TX 78238-5166

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VI	A DEI	LIVER TO	
8/02	2 Betty Varnon	NET 30 SI			VENDOR TRUC	CK FAX TO BYR	FAX TO BYRON CHAPA	
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I	********************************  ******	CO ******** rtified for nat nse Priorities  EN6502-3-0981	N F I R M A T I O  *********  ional defense use  Allocations Syste  EA 03/06/03	N *********** , and the Cont m Regulation ( 03/06/03	**************************************	* ******* follow all	\$240.0	
	INVOICE #199147 (02/06/200#INVOICE #198744 (01/24/2003  Prime Contract #: NRC02020 AOP: 705-000 1.20	\$160.00	Req: 01513- iority: NONE 06002.01.081	so				
	COMPLETE, INVOICES #1991 RELEASED BY BYRON CHAPA PLEASE FAX RESULTS TO BY		-522-6220					
÷	Bill To: SOUTHWEST RESEARCH INSTI P.O. Drawer 28510 Attention: Accounts Payal San Antonio, TX 78228-05	ole				PO Total Amt:	\$240.0	
	Authorized Signature							

7 Culebra Road San .ntonio, TX 78238-5166 Purchase Order: 370227N

Page: 1 Date Printed: 02/24/2003

Order To: IHI SOUTHWEST TECHNOLOGIES, INC. 503036

Ship To: SOUTHWEST RESEARCH INSTITUTE

6766 CULEBRA ROAD

6220 Culebra Road

BLDG 169

SAN ANTONIO, TX 78238

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 4/03 Florence Cisneros NET 30 DESTINATION N/A DARRELL DUNN X6090 DUE DESIRED LINE ITEM/DESCRIPTION REV U/M DATE 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). SERVICES 01 EA 02/24/03 02/24/03 1.0000 440.0000 \$440.00 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."

Culebra Road San Antonio, TX 78238-5166 Purchase Order: 370227N

Page: 2 Date Printed: 02/24/2003

Order To: IHI SOUTHWEST TECHNOLOGIES, INC.

503036

6766 CULEBRA ROAD

BLDG 169

SAN ANTONIO, TX 78238

Contact:	FRED ANDERSON Ph: 256-	-4108 Fax: 521-	-2311				
ORDER DATE	BUYER	TERMS	FOB	SALES ORDE	R SHIP V	IA DE	LIVER TO
0 4/03	Florence Cisneros	NET 30	DESTINATION		n∱/A	DARRELL DU	JNN X6090
			DUE	DESIRED			
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Purchase Order: 370227N

6220 Culebra Road San Antonio, TX 78238-5166 Page: 3
Date Printed: 02/24/2003

Order To: IHI SOUTHWEST TECHNOLOGIES, INC.

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6766 CULEBRA ROAD

BLDG 169

SAN ANTONIO, TX 78238

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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 370227N

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Date Printed: 02/24/2003

Order To: IHI SOUTHWEST TECHNOLOGIES, INC.

6766 CULEBRA ROAD

BLDG 169

SAN ANTONIO, TX 78238

Contact:	CERE	ANDERSON	Dh.	256-4108	Day.	501-0011	

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San Antonio, TX 78238-5166

rurchase order: 3832298

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

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6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383229S

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Date Printed: 03/06/2003

Order To: TEXAS TOOL MAKERS

11411 E. COKER LOOP SAN ANTONIO, TX 78216

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6220 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

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			Attached	Quote and CNWRA Dra	awing 20-0	1402-571-027			,		
	i			and Techni <b>qul</b> Requiremachined as per CN							
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1				s identified in CNW			-027 is requi	red.			
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			other met	hod that conserves n	naterial.						
			"Qualit	Ty Affecting Pu	rehase"	/	7				
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	- <del>-</del> -			Q20, Q12		REQUESTOR'S SIGNA	TURE	EXT. NO.		ON OFF	
C	G-3 AC	COUNTABLE /	REPORTABLE	c INSPECTION CRITERIA	100	Darrell Dur	1T1	6090	C	IF OFF CAMPUS PROVID	DE SHIPPING TICKET
d	IS GOVT. PRO SUPPLIER?	PERTY BEING	SENT TO	PI TO INSPECT		DEPT. / DIVISION APP	ROVAL	3\3\03			
	YES NO	W.,	_	d QA APPROVAL (IF REQUIRED)	13/21	ADMIN. APPROVAL		DATE		NO	
CONTRAC	T REVIEW APPE	ROVAL		DATE BUYER SIGNATULE	702	<u> </u>	DATE				
				2002		* * * * * * * * * * * * * * * * * * *		·		SEE INSTRUCTIO	NS ON REVERSE SIDE
	***				and the second	Age of the second					

REQUISITION DATE

ORDER DATE PURCHASE ORDER NUMBER

REQ. NO.

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

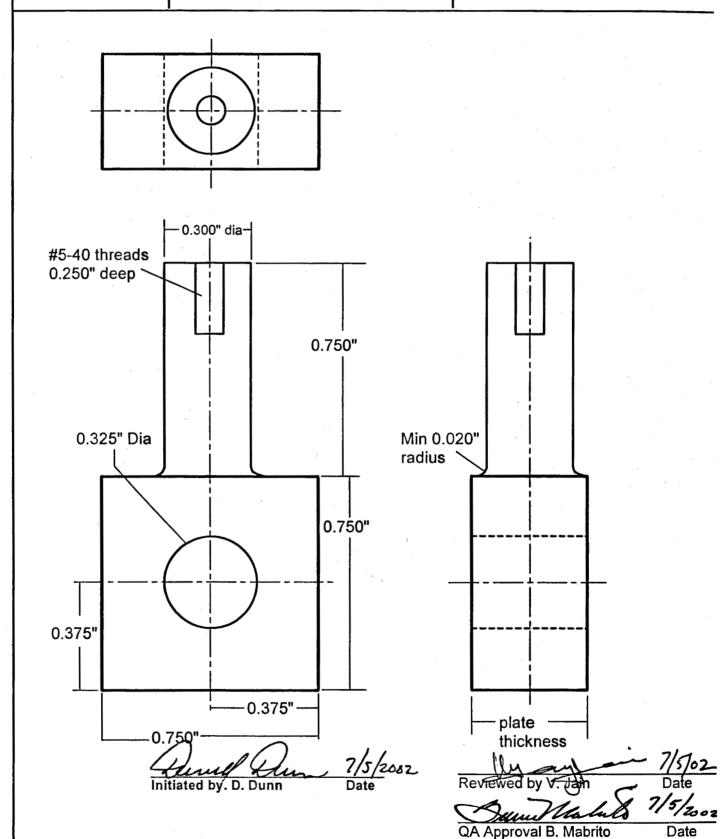
To completed at time of order:

Material: Alloy C-22

Heat: 2277-8-3175

Specimen Orientation:

Other:



6220 Culebrá Road San Antonio, TX 78238-5166 Purchase Order: 383088S

Page: 1 Date Printed: 02/14/2003

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

Contac	:t:	MIKE RIDGEWAY				anna ann an France an			
ORDI DAT		BUYER	TERMS	FOB	SALES ORI	DER	SHIP VIA	. DEI	IVER TO
G 4/	′03	Jimmie Silvers	.5% 10	SHIPPING POINT		ζŪ	JR TRUCK		
LINE		ITEM/DESCRIPTION	REV		DESIRED DATE	QUAN	TITY I	NET UNIT COST	EXTENDED COST
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1	-	_		EA 02/20/03	_	,	12.0000	121.0000	\$1,452.00
				Req: 624882		**			
	Pı	rime Contract #: NRC02020 AOP: 704-000 1.20	12 Pr	iority: NONE 06002.01.081					
		NOTE: QUALITY & TECHNICA SPECIMENS MACHINED AS PE DIMENSIONS AND TOLERANCE "QUALITY AFFECTING"	R CNWRA DRAWING	20.06002.01.081.	•		J.	?ER	
		THE GENERAL PURCHASE ORD PLEASE SIGN AND RETURN A			l l			4	
	e.	AGREED & ACCEPTED:							
		DATE:							
		"IF THIS ORDER INCLUDES PROPERTY FURNISHED HEREW PROPERTY WHICH MUST BE A PART 45. REFER TO GENER FOR RISK OF LOSS."	ITH IS CONSIDER CCOUNTED FOR IN	ED GOVERNMENT-FUR ACCORDANCE WITH	NISHED FAR,				

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383088S

Page: 2

Date Printed: 02/14/2003

Order To: TEXAS TOOL MAKERS

11411 E. COKER LOOP SAN ANTONIO, TX 78216 100987

F	act:	MIKE RIDGEWAY								
£000000000000	EDER ATE	BUYER	TERMS	FOB	SALES OR	DER	SHIP VI	'A	DE	LIVER TO
0	4/03	Jimmie Silvers	.5% 10	SHIPPING POINT		ø	UR TRUCK			
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		Bill To: SOUTHWEST RESEARCH INSTI P.O. Drawer 28510 Attention: Accounts Paya San Antonio, TX 78228-05	able		**************************************	s the		PO Tot	al Amt:	\$1,452.00
		Authorized Signatur	es		.5					

3	300	PUR	CHASE REQUIS	ITION		Income.			DEPARTMENT	<u> </u>		
	so.			H INSTITUTE _™		REQUISITIO	N DATE ORDE	ER DATE PURCHASE	ORDER NUMBER		REQ. NO.	4882
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CITY, ST	.411 Col	eeri o	าก			SHIP VIA						
ATTN:			<u> </u>			F.O.B.			SUPPLIER CODE	50/41 1987	lattn	
	ke Ridg	way		·								
PHONE 21	0 494-3	8651	210 PAX	94-613	9 .	TERMS			PHONE		FAX	
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			from w	elde <b>d</b> all	oy 22 plat	e						
	*							•				
			Quality	and Techi	nical Requ	iremen	ts:					
Specimens machined as per					ed as per	CNWRA	drawing 20	06002.01.08	31,003			
	Dimensional inspection p					dimen	<b>s</b> ions and t	olerances				
			identif	led in CNV	√RA drawin	g 20.0	6002.01.081	, is require	ea.			
			"QUAL	Ty Afte	cTing"		. <	- 003				
					s and quot	es						
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	d IS GOVT. PRO			c INSPECTION	N SOECT P	F.L.	Darrell S		6090 DATE		IF OFF CAMPUS PROVID	E SHIPPING TICKET
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				<u>-</u>	23.2 3.3.7.10112		$\sum_{i=1}^{n}\frac{u_{i}^{-1}+\dots u_{i}^{-1}}{y_{i}^{-1}+\dots y_{i}^{-1}}\leq 1$	DAIL			SEE INSTRUCTION	NS ON REVERSE SIDE

Darrell S. Dunn SwRI-CNWRA

Phone: (210) 522-6090 Fax: (210) 522-5184 e-mail: ddunn@swri.org Jobend specimen CNWRA 20.06002.01.081.003 All Dimensions ± 0.010" unless otherwise specified

Page 1 of 2

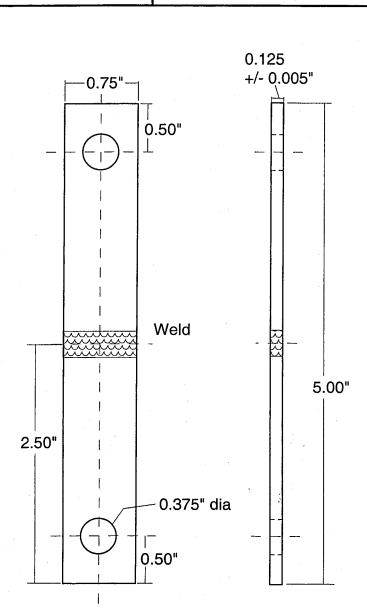
1. e completed at time of order:

Material: Welded Alloy 22 NG-GTAW

(58Ni-22Cr-13.5Mo-3W-3Fe) Heat: 059902LL2 & XX2048BG

Specimen Orientation: As shown

Other: Framatome D62X plate



Thrul Jun, 2/12/03 Initiated by. D. Dunn Date

Reviewed by V. Jain

2/12/03 Date

wed by V. Jain Date

QA Approval B. Mabrito

7/12/2003 Date

Darrell S. Dunn **SwRI-CNWRA** 

Phone: (210) 522-6090 Fax: (210) 522-5184 e-mail: ddunn@swri.org Loc on of U-bend specimens CNWRA Drawing 20-06002-01-081-003

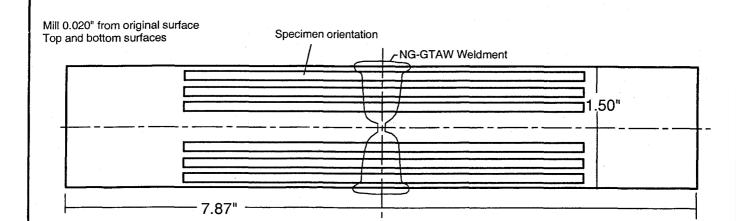
Page 2 of 2

<u>Tc</u> ¿ 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



Initiated by. D. Dunn

Reviewed by Valain

QA Approval B. Mabrito

2/12/2003 Date

Fer 210-494-3691

TEXAS TOOLMAKERS, INC. 11411 EAST CONER LOOP

# CUSTOMER QUOTEMORK ORDER

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6220 Culebra Road

San Artonio, TX 78238-5166

Purchase Order: 383165S

Page: 1 Date Printed: 02/27/2003

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

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1	MISC CYLINDRICAL SPECIMENS FROM	BASE METAL	EA 03/07/03 Req: 637659	+ 1%	8.0000	73.0000	\$584.0
	Prime Contract #: NRC0202 AOP: 704-000 1.20		lority: NONE 06002.01.081				
2	MISC CYLINDRICAL SPECIMENS FROM QUALITY & TECHNICAL REQUIR DRAWING 20-01402-571-019. 20-06002-01-081-004. DIMENSIONAL INSPECTION PER CNWRA DRAWING 20-01402-571	EMENTS: SPECIMENS LOCATION OF SPECI DIMENSIONS AND T	IMENS SPECIFIED I	CNWRA N	8.0000	73.0000	\$584.00
			Req: 637659				
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	SWRI QA RECEIVING INSPE	CTION CRITERIA:	· · · · · · · · · · · · · · · · · · ·				
	THE GENERAL PURCHASE OR PLEASE SIGN AND RETURN A						

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

Jimmie Silvers  SHIPPING POINT  DUE DESIRED  OUR TRUCK  D DUNN B57  DUE DESIRED  OUANTITY  NET UNIT COST EXTEND  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
INE ITEM/DESCRIPTION REV U/M DATE DATE QUANTITY NET UNIT COST EXTEND  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.
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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
6/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57	
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S	and a	PUR	CHASE REQUISIT	TION	DEOLUCITIC	DEPARTMENT  REQUISITION DATE ORDER DATE PURCHASE ORDER NUMBER REQ. NO. /									
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	d IS GOVT. PRO SUPPLIER?	PERTY BEING	SENT TO	P. I. To wasped		DEPT. / DIVISION APPR	ROVAL	2/25/03							
	YES			d QA APPROVAL (IF BE	EQUIRED) DATE	ADMIN. APPROVAL		DATE		NO					

DATE

SEE INSTRUCTIONS ON REVERSE SIDE

CONTRACT REVIEW APPROVAL

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

Phone: (210) 522-6090 Fax: (210) 522-5184

# **Cylindrical Test Specimen**

**CNWRA Drawing 20.01402.571.019** 

#5-40 thread centered minimum 0.25	0" deep
	This information is to be completed at time of Material: ALLOY 22 fabrication
/	Material: ALLOY22 fabrication
	Heat #: 059902レレス \$ xx2048から
	Specimen Orientation: AS SHOWN TN
	CNWRA 20.06002.01.081.004
	Other:
$1.915" \pm 0.005$	
	4 %
$0.250" \pm 0.003"$	
<u> </u>	

QA Approval B. Mabrito

Land 1. Jun 10/15/0, Initiated by. D. Dunn Date

Reviewed by V. Jain Date

MAST EA	TOOLMAKER ST COKER LOC ONIO, TX 78216	<b>**</b>		FAXE FER 127	uud		Phone: 210-4 Fax: 210-4	94-3651 94-61 <b>3</b> 9
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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

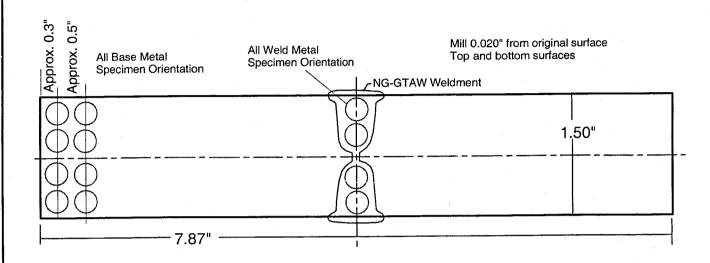
To completed at time of order:

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

Heat: 059902LL2 & XX2048BG

Specimen Orientation: As shown

Other: Framatome D62X plate



Initiated by. D. Dunn Date

Mayton

2/12/03

Reviewed by V. Jain

Date

Sou Malure 2/12/200

QA Approval B. Mabrito

Date

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 383260S

Page: 1 Date Printed: 03/12/2003

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

Contac	ct: MIKE RIDGEWAY											
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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						
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**PURCHASE REQUISITION** 

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

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

# **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: Quote Good Until: 3/3/03 6/3/03

Terms:

0.5%/10 days, Not 30

FOB:

TI

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	\$864,0

#### Work Instructions:

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

Quality Requirements: None As Noted	Below	
	Certificate of Compliance: 2 Tes No	Source Inspection: Yes No
Documented Dimensional Inspection: Yes No	IF YES: 1) Specified Dimensi	ions Only 2] Sampling 3) 100%
Authorized TTI Representative:	be Ridaway	Date: 3-3-03
Customer Acceptance:	Title:	Date:
Customer Comments:		
4	• •	i i
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	Fee CITON CHAPTER	
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**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

Due Date. 01/00/00

LN <u>NO</u>	ORD QTY	REC QTY	ACC QTY	REC <u>DATE</u>	SHIP <u>VIA</u>	TOT <u>AMT</u>	<u>DESCRIPTION</u>
1	10	10	10	12/31/200	2 UPS	\$214.90	3/32" DIA X 36" LONG BARE ELECTRODES ER NICrMo-10 FILLER
2	30	30	30	12/31/200	2 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 ERNICTNO-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		Notice Section	-	DEPARTA	MENT		
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SUGGESTED OR PREVIOUS SUPPLIER	DELIVER TO			URCHASING SELEC	TED SUPPLII	ER die jedickling	
Welders Supply CITY, STATE	Darre SHIP VIA	ell Dunn/bldg.	. 587				
ATTN:	F.O.B.		SI	UPPLIER CODE		ATTN	
PHONE FAX	TERMS		P)	HONE		FAX	
684-0232							
LN. QTY. UNIT DESCRIPTION	ů.	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
3/32" dia x 36" long bare ele	ectrodes						
A 10 1b 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
		· · · · · · · · · · · · · · · · · · ·					
Quality & Technical Require	ements: (	Quality affect	ing purchase.	M <b>e</b> terial	must	meet the con	mpositional
specifications SFA A5.14 A	WS classi	fication ERNIC	rNo-10 for well	d filler	m <b>e</b> tal.		
a copy of the mill test re						·	
An independent chemical and					ptance	of the mate	erial
will be determined by the	ourceme of	t the independ	ent chemical a	maiyses.			<u> </u>
			2				
						<u>:</u>	
		788-4					
INTERNAL NOTES TO BUYER	SPECIAL IN	STRUCTIONS TO SUPPLIER					
						TOTAL	
1. Government Project? YS NO 2. QUALITY ASSURANCE? YE	S NO	3. SOURCING NOT	ES		4. 1	REPAIRS	
IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROP- ERTY TYPES)  A ASL REQUIRED? YES N	<b>10</b>		TED A BRAND NAME OR PAI QUIVALENT BRAND OR PRO		~	IS THIS REQ. FOR A REF	PAIR?
a 🙀 G-1 CONSUMABLE			ESTED A SUPPLIER, AND N	IO OTHER SUPPLIE	R .	YES NO	
b Q A CODES: Q4			EDS, PLEASE ATTACH A MEN			IS THE REPAIR ON OR O	OFF CAMPUS?
b G-2 DELIVERABLE		REQUESTOR'S SIGNAT	TURE	EXT. NO.		ON OFF	4
C G-3 ACCOUNTABLE / REPORTABLE C INSPECTION CRITERIA		Darrell		6090	с	IF OFF CAMPUS PROVID	DE SHIPPING TICKET
d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?		DEPT. / DIVISION APPE	ROVAL	12/18/02			
YES d QA APPROVAL (IF REQUIRED)	) DATE	ADMIN. APPROVAL		DATE		NO	
no No						<u> </u>	
CONTRACT REVIEW APPROVAL DATE BUYER SIGNATU	RE		DATE			SEE INSTRUCTIO	NS ON REVERSE SIDE

No requisition is available for the record you have requested. 637636

Purchase Order # 375301P

REC

**QTY** 

Vendor: IHI SOUTHWEST TECHNOLOGIES, INC.

**Due Date:** 12/12/02

**Order Date:** 12/12/02

ORD

QTY

LN

NO

ACC REC SHIP QTY **DATE** 

TOT

<u>AMT</u>

**DESCRIPTION** 

2 0 0 <u>VIA</u> N/A \$880.00

SERVICE PURCHASE ORDER

Total \$880.00

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q20 Q12 P12

SL	_	PHR	CHASE REQUISIT	rion ·					DEPARTM	IENT		
R			JANUE NEGOION			REQUISITION I	DATE ORDE	R DATE PURCHASE (	ORDER NUMBER		REQ. NO.	
	so ®	UTHWES	T RESEARCH	INSTITUTE _{TM}		12/11	/02				56 grad 16 a 16 a 16 a 16 a 16 a 16 a 16 a 16	37636
SUGGE	STED OR PREVIO	US SUPPLIER				DELIVER TO			PURCHASING SELECT	red Supplii	ER III (1)	
	HI South	est					nn/bldg. 57					
CITY, ST	ATE					SHIP VIA						
ATTN:				· · · · · · · · · · · · · · · · · · ·		F.O.B.		5	SUPPLIER CODE		ATTN	
F	red Ander	rson										
PHONE			FAX			TERMS			PHONE		FAX	
	56-4108	T 1222		521-2311								
LN.	QTY.	UNIT		DESCRIPTION			ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	2	EA	Radiograp	ohic inspectio	a of Alloy	22						
P 9	i ·		weld				20	06002.	01.081	100	12/14/02	440.00
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	÷						** **					
				& Technical R le. NDE certif								
			inspecti		rode rons	Cquire	TOT THOUSE	Perrorms	, and 100	rearing.	ruurogrupm	
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			** **									
												- चूर्वक्र 
INTERN	AL NOTES TO BU	YER	<del></del>			SPECIAL INSTR	RUCTIONS TO SUPPLIEF	<u> </u>			TOTAL	
		. 1	LEASE RUSE	111111							TOTAL	
1.	Government Pro	oject? YES	. NO	2. QUALITY ASSURA	NCE? YES [	NO	3. SOURCING NOT	res .		4.	REPAIRS	
TY	YES, CHECK THE PE (SEE BACK FO TY TYPES)			a ASL REQUIRED?	YES NO			TED A BRAND NAME OR PA EQUIVALENT BRAND OR PR EST NAO		v .	IS THIS REQ. FOR A REF	PAIR?
1	a <u></u> gr_G-1 CC	NSUMABLE					IF YOU HAVE SUGG	ESTED A SUPPLIER, AND EDS. PLEASE ATTACH A ME			YES NO	***
	b G-2 DI	ELIVERABLE		b QACODES:	Q20, Q12		REQUESTOR'S SIGNA		EXT. NO.	ъ р	ON OFF	OFF CAMPUS?
	C G-3 AC	COUNTABLE /	REPORTABLE	c INSPECTION CR	TERIA		Darrell I	)unn	6090	c	IF OFF CAMPUS PROVID	DE SHIPPING TICKET
	d IS GOVT. PRO	OPERTY BEING	SENT TO	P.I. TO INSP QAP	90 pm	•	DEPT: / DIVISION APPI	ROVAL	DATE			
	YES			d QA APPROVAL (I	BEOLIBED)	DATE	ADMIN. APPROVAL	· · · · · · · · · · · · · · · · · · ·	DATE		NO	
	NO					12/1/2002						
CONTRA	CT REVIEW APP	ROVAL		DATE BUY	ER SIGNATURE			DATE			SEE INSTRUCTIO	NS ON REVERSE SIDE

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

LN ORD REC ACC

SHIP TOT

**DESCRIPTION** 

 $\begin{array}{cccc}
\underline{NO} & \underline{QTY} & \underline{QTY} & \underline{QTY} \\
\mathbf{1} & 1 & 0 & 0
\end{array}$ 

VIA AMT
YOUR TRUCK \$200.00

SERVICE PURCHASE ORDER

Total \$200.00

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q20 Q12

REC

DATE

S	and the second	PUR	CHASE REQUISITION		· •	B)X0110014441411	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	DEPART	MENT	With the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t	
R	sc ®	UTHWES	T RESEARCH INSTITU	JTE _™	REQUISITION 12/2		R DATE PURCHASE	ORDER NUMBER		REQ. NO.	37634
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	Fred A	nderson									
PHONE			FAX		TERMS			PHONE		FAX	
	256-41		521-2311								
LN.	QTY.	UNIT	DI	ESCRIPTION		ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
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			Allog 22 weld			20	06002.01/	081	100	12/4/02	\$200.00
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INTERN	ALNOTES TO BO	ren			SPECIAL INS	TRUCTIONS TO SUPPLIER				TOTAL	
1.	Government Pr	ject? YES	NO 2. QUAL	ITY ASSURANCE? (YES)	NO	3. SOURCING NOT	ES		4.	REPAIRS	
T	YES, CHECK THE PE (SEE BACK FO TY TYPES)		E PROPERTY DN OF PROP- a AS	SL REQUIRED (YES) NO		TURER, WOULD AN E	TED A BRAND NAME OR F EQUIVALENT BRAND OR P	PARTICULAR MANUF RODUCT ALSO SATI	crv I	IS THIS REQ. FOR A REF	PAIR?
	a G-1 CC	NSUMABLE				IF YOU HAVE SUGGI	ESTED A SUPPLIER, AND			YES NO	. The second second
	b G-2 DI	ELIVERABLE	b Q	ACODES: Q20, Q12		REQUESTOR'S SIGNAT	EDS, PLEASE ATTACH A M	EXT. NO.	b b	IS THE REPAIR ON OR C	PFF CAMPUS?
	c G-3 AC	COUNTABLE /	REPORTABLE C IN:	SPECTION CRITERIA		Darrell D	dunn	6090	С	IF OFF CAMPUS PROVID	DE SHIPPING TICKET
	d IS GOVT. PRO SUPPLIER?	PERTY BEING		1.8		DEPT. / DIVISION APPE	ROVAL La V	DATE (2/2/2しい2	i quan-		
	YES		d Q/	APPROVAL (IF REQUIRED)	12/z/	ADMIN. APPROVAL		DATE	L .	NO	
	■ NO			m / Habert	2/2/0	z					<u> </u>
CONTRA	ACT REVIEW APPI	ROVAL	DATE	BUYER SIGNATURE			DATE			SEE INSTRUCTION	NS ON REVERSE SIDE

(RECAL)		REQUISITION DATE		ORDER DATE PURCHASE ORDER NUMBER			REQ NO.						
	S s	OUTHWES	T RESEARCH	INSTITUTE _™	12/	2/02				637634			
SUGGES	TED OR PREV	IOUS SUPPLIER			DELIVER TO			<u> 4 </u>	PURCHASING SELEC				
	IHI Se	outhwest			D	. Dunn/bld	g. 57						
CITY, ST.	ATE			ı	SHIP VIA								
ATTN:					F.O.B.	- 1969 - 1969			SUPPLIER CODE		ATTN		
	Fred A	Anderson											
PHONE			FAX		TERMS				PHONE		FAX		
	256-4		521	-2311	100 mg					T			
LN.	QTY.	UNIT		DESCRIPTION		ORG	PF	ROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE	
A	3	EA	Penetrant	test root pass of		·		<u></u>					
			Alloy 22	weld		20	060	02.01.	081	100	12/4/02	\$200.00	
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		-		Technical Requiremen						-	<u> </u>		
			must be	compliant with Section  for The Indi  certifications	n V of	the ASME c	ode N2	ECT	ATT Frest				
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ANTERNIA	L NOTES TO B	10/50			Teneral INC	TRUCTIONS TO SU	DUED						
INTERNA	T NOTES TO B	UYER		<i>,</i>	SPECIAL INS	STRUCTIONS TO SUF	TLIER				TOTAL	·	
1. (	Sovernment P	roject? YES	NO	2. QUALITY ASSURANCE? (YES)	NO	3. SOURCING	NOTES			4.	REPAIRS		
		E APPROPRIATE		a ASL REQUIRED YES NO					PARTICULAR MANUFA RODUCT ALSO SATIS		IS THIS REQ. FOR A REPA	ID2	
	Y TYPES)	OR EXPLANATION	DIV OF FROE	d ADETIEGOTIALD [10]		YOUR NEED?	YES NO			a	YES NO	in;	
	G-1 C	ONSUMABLE		b QACODES: <b>020. 012</b>					NO OTHER SUPPLII			T CAMPILICA	
ı	G-2 C	ELIVERABLE	·	b QACODES: Q20, Q12		REQUESTOR'S	· · · · · · · · · · · · · · · · · · ·		EXT. NO.	b	ON OFF	F CAMPUS?	
(	G-3 A	CCOUNTABLE / F	REPORTABLE	C INSPECTION OPITEDIA								OLUBBUAG TIGUT	
(	d IS GOVT. PR	OPERTY BEING	SENT TO	c INSPECTION CRITERIA		DEPT. / DIVISION	APPROYAL		6090 DATE	⊢ °	IF OFF CAMPUS PROVIDE	SHIPPING TICKET	
·	SUPPLIER?			d QA APPROVAL (IF REQUIRED)	DATE	Thera	Liolaro		12/2/2002	-			
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JONTHAC	T REVIEW APP	TOVAL		DATE BUTEN SIGNATURE			DAIE				SEE INSTRUCTION	S ON REVERSE SIDE	
						<del></del>					1		

# **Darrell Dunn**

From: Sent:

Fred Anderson [fanderson@ihiswt.com] Monday, December 02, 2002 3:17 PM

To: Cc: 'ddunn@swri.org' 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
NO QTY QTY QTY DATE VIA AMT DESCRIPTION

1 1 0 0 UPS \$352.00 SERVICE PURCHASE ORDER

Total \$352.00

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q49 Q12 Q20 P12

S	- Alexander	PUR	CHASE REQUISI	TION				Facility (S. 27 July 1991)		DEPARTMENT			
R	so	UTHWES	T RESEARCH	I INSTITUTE		REQUISITION		ORDER DA	ATE PURCHASE (	DADER NUMBER	D.	REQ. NO.	4998
SUGGES	STED OR PREVIO					DELIVER TO				PURCHASING SELEC	TED SUPPLI	ER	
An-	Tech Lab	oratori	.es			D. Dt	mn/bldg.	57			o day ()		
CITY, ST						SHIP VIA		estat.					
HOU ATTN:	ston, TX			·		F.O.B.	<u>Oraș a Marijo e Pili</u> Degra e Pilita			SUPPLIER CODE		ATTN	
	ald Derr	ick											
PHONE			FAX	ķ.		TERMS			engale company	PHONE		FAX	ia in amu
LN.	/6 <b>6</b> 4-750 QTY.	UNIT	<u> </u>	DESCRIP	TION	adish - "	ORG	3.79 6.7 34.6 2	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
			#751 for		test plate AW-GMAW per follows:	1998					:		
A	1	EA	RT inspe	ct			20		06002.01	.081	100	11/30/02	50.00
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С	4	EA	Machinin	g side bend	specimens		20		06002.01	.081	100	11/30/02	35.00
D	2	EA	Test ten	sile specím	ens yield by	Extens	someter	20	06002.01	.081	100_	11/30/02	22.00
E	4	EA	Test sid	e bend spec	imens		20	7	06002.01	.081	100	11/30/02	12.00
			Quality	affecting p	urchase.								
		À.											
INTERNA	AL NOTES TO BU	YER				SPECIAL INS	TRUCTIONS TO S	UPPLIER		<del> </del>		TOTAL	
IF Y TYF ERT	b G-2 D	E APPROPRIATION EXPLANATION EXPLANATION SUMABLE ELIVERABLE	E PROPERTY ON OF PROP-	2. QUALITY AS:  a ASL REQU  b Q A CODE:	RED? NO	NO NO NO NO NO NO NO NO NO NO NO NO NO N	TURER, WOU YOUR NEED	E SELECTED ULD AN EQUI ? YES YE SUGGEST YOUR NEEDS	A BRAND NAME OR PAIVALENT BRAND OR PRINO  ED A SUPPLIER, AND B., PLEASE ATTACH A ME	ODUCT ALSO SATISE	C- FY a	REPAIRS IS THIS REQ. FOR A REP YES NO IS THE REPAIR ON OR CO ON OFF	
	d IS GOVT. PRO			c INSPECTION PI to in	n CRITERIA spect per QA	AP-016		ell Dur ION APPROV	nn AL	6090 11 19/02		IF OFF CAMPUS PROVID	E SHIPPING TICKET
(10/01)	SUPPLIER?  YES				VAL (IF REQUIRED)	DATE	ADMIN. APPRO	OVAL	win	DATE		NO	<u> </u>
CONTRAC	OT REVIEW APP	ROVAL		DATE	BUYER SIGNATURE	21/20/0	<u>4</u>		DATE	<u> </u>		SEE INSTRUCTION	NS ON REVERSE SIDE

San Antonio, TX 78238-5166

raye: 1
Date Printed: 12/20/2002

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

Contac	: T	MIKE RIDGEWAY						
ORD								
DAT	E	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DE	LIVER TO
1 70/	/02	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D.DUNN/B57	
					DESIRED			
LINE	<u> </u>	ITEM/DESCRIPTION		U/M DATE	econocide con econocide e especial de constante e en constante e en constante e en constante e en constante e		UNIT COST	EXTENDED COST
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		This is a rated order ce requirements of the Defe	rtified for nat: ense Priorities ?	ional defense use Allocations Syste	, and the Contr m Regulation (1	actor shall follo	ow all	
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1	MI	SC EVICE CORROSION TEST SPEC	TMENTS 20-04238	EA 01/13/03	01/13/03	10.0000	115.7500	\$1,157.50
		V. 01. MACHINED FROM ALL		01 002 001,				
				Req: 637639	,			
				Req: 03/039				
	P:	rime Contract #: NRC02020 AOP: 704-000 1.20		iority: NONE 06002.01.081		·		
		QUALITY & TECHNICAL REQU REV. 01. DIMENSIONAL IN 20-04238-01-002-001, REV	SPECTION PER DI	MENSIONS AND TOLE				
		THE GENERAL PURCHASE ORD PLEASE SIGN AND RETURN A						
		AGREED & ACCEPTED:		<u> </u>				
		DATE:						
	r.	"IF THIS ORDER INCLUDES PROPERTY FURNISHED HEREW PROPERTY WHICH MUST BE A PART 45. REFER TO GENER FOR RISK OF LOSS."	ITH IS CONSIDERN CCOUNTED FOR IN	ED GOVERNMENT-FUR ACCORDANCE WITH	NISHED FAR,			

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	DE	LIVER TO
1 30/02	Jimmie Silvers	.5% 10	SHIPPING POINT		ÔUR TRUCK	D.DUNN/B57	7
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	Bill To: SOUTHWEST RESEARCH INST P.O. Drawer 28510 Attention: Accounts Pay San Antonio, TX 78228-0  Authorized Signatu	ITUTE able 510			Po	O Total Amt:	\$1,157.50

#### DEPARTMENT **PURCHASE REQUISITION** BEQUISITION DATE ORDER DATE PURCHASE ORDER NUMBER 637639 SOUTHWEST RESEARCH INSTITUTE... 12/16/02 SUGGESTED OR PREVIOUS SUPPLIER DELIVER TO PURCHASING SELECTED SUPPLIER Texas Toolmakers D. Dunn/bldg. 57 ATTN: F.O.B. SUPPLIER CODE ATTN Mike Ridgway PHONE TERMS PHONE FAX 494-3551 494-6139 LN. QTY. DESCRIPTION **DATE REQUIRED** UNIT ORG PROJECT ACCT % **EST. UNIT PRICE** A 10 EA Crevice 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. Deminsional 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 2. QUALITY ASSURANCE? NO 3. SOURCING NOTES 4. REPAIRS IF YES, CHECK THE APPROPRIATE PROPERTY IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFAC-TURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY a ASL REQUIRED? YES TYPE (SEE BACK FOR EXPLANATION OF PROPa IS THIS REQ. FOR A REPAIR? YOUR NEED? YES NO ERTY TYPES) YES NO IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER a 👿 G-1 CONSUMABLE WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. b Q A CODES: b IS THE REPAIR ON OR OFF CAMPUS? 011 b G-2 DELIVERABLE REQUESTOR'S SIGNATURE EXT. NO. OFF c G-3 ACCOUNTABLE / REPORTABLE C IF OFF CAMPUS PROVIDE SHIPPING TICKET d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

SEE INSTRUCTIONS ON REVERSE SIDE

CONTRACT REVIEW APPROVAL

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".

0,200" Plate thickness -0.400"--Drill to clear #8-32 0.125" radius 0.325", dia 0.750" -0.375"---0.750"·

Initiator: D. Dunn Date

QA Approval: B. Mabrito

6/22/2001

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Texas	1 001	mak	C13,	IHC.

Тех	as T	oolmakers, l	inc.					•	10) 494-3651 10) 494-6139
1411	E. Cok	ter Loop / San Anton		<b>D</b>	WORK OR	DED / O	HOTE		10) 494-0139
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622	0 CUL	EBKA				Phone No.:		Fax No.:	LI DOINI
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Cus	tomer .	Acceptance:		1	Title:		1	Date:	
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rii F	orm QF-0	30101			, 1				Rev 2

6220 Culebra Road San Antonio, TX 78238-5166 Purchase Order: 399682L

Page: 1
Date Printed: 11/11/2002

Order To: MINERAL OPTICS LABORATORY 126378 Ship To: SOUTHWEST RESEARCH INSTITUTE

29 A STREET WILDER, VT 05088

6220 Culebra Road San Antonio, TX 78238-5166

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Page: 2
Date Printed: 11/11/2002

Order To: MINERAL OPTICS LABORATORY

126378

29 A STREET WILDER, VT 05088

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SEE INSTRUCTIONS ON REVERSE SIDE

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

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Order To: TEXAS TOOL MAKERS

11411 E. COKER LOOP SAN ANTONIO, TX 78216 100987

Contact:	MIKE RIDGEWAY							
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#### (Jim Shew) **PURCHASE REQUISITION** REQUISITION DATE PURCHASE ORDER NUMBER 624983 3824255 SOUTHWEST RESEARCH INSTITUTE, 10/11/02 SUGGESTED OR PREVIOUS SUPPLIER DELIVER TO PURCHASING SELECTED SUPPLIER Texas Toolmakers D. Dunn/bldg. 57 CITY, STATE SHIP VIA San Antonio, TX ATTN: F.O.B. SUPPLIER CODE Mike Ridgway PHONE TERMS FAX 210/494-3651 210/494-6139 LN. QTY. UNIT DESCRIPTION ORG **PROJECT** ACCT **DATE REQUIRED EST. UNIT PRICE** C-22 weld specimens CNWRA drawing 4 EA 20-06002-01-081-001 20 06002.01 .081 100 11/1/02 1150.00 Quality & 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. INTERNAL NOTES TO BUYER SPECIAL INSTRUCTIONS TO SUPPLIER **TOTAL** 1. Government Project? YKS 2. QUALITY ASSURANCE? YES NO NO 3. SOURCING NOTES 4. REPAIRS IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFAC-IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPa ASL REQUIRED? Y∰ES TURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY a IS THIS REQ. FOR A REPAIR? YOUR NEED? YES NO YES NOT IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER a X G-1 CONSUMABLE WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION b Q A CODES: 011 b IS THE REPAIR ON OR OFF CAMPUS? b G-2 DELIVERABLE REQUESTOR'S SIGNATURE EXT. NO. ON OFF G-3 ACCOUNTABLE / REPORTABLE Darrell Dunn 6090 C IF OFF CAMPUS PROVIDE SHIPPING TICKET PI TO USRITY INSPECTION. DERTY DIVISION APPROVAL d IS GOVT, PROPERTY BEING SENT TO 10/11/02 SUPPLIER? ADMIN. APPROVAL DATE CONTRACT REVIEW APPROVAL

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

[X] 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:

Swell & Glins

24.00" +/- 0.08"  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A  Detail A	Darrell S. Dunn SwRI-CNWRA Phone: (210) 522-6090 Fax: (210) 522-5184 e-mail: ddunn@swri.org	Alloy 22 vveld Specimen CNWRA Drawing 20-06002-01-081-001 Dimensional tolarances as specified Note: Detail A on Page 2 Page 1 of 2	To completed at time of order:  Material: Heat: Specimen Orientation: Other:
Detail A  Detail A  Initiated by D. Dunn  Date			
Detail A Initiated by. D. Dunn Date			nominal
	Detail A		Initiated by. D. Dunn Date  My ay Jan 10/7/2007

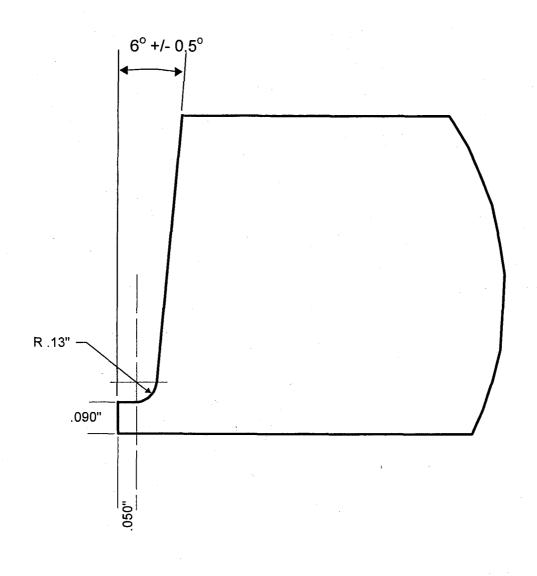
Darrell S. Dunn SwRI-CNWRA Phone: (210) 522-6090 Fax: (210) 522-5184 e-mail: ddunn@swri.org

Alloy 2∠ . √eld 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:			
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Heat:	<u> </u>		
Specimen Orientation:			
Other:		_	

# Detail A



Initiated by. D. Dunn

Date

QA Approval B. Mabrito

10/1/2002 Date

Texas Toolmakers, Inc. Phone: (210) 494-3651 11411 E. Coker Loop / San Antonio, TX 78216 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 10 NET 30 Customer P.O.: Contact: 6220 CULEBRA DARREL DUNN Phone No.: Fax No.: SAN ANTONIO, TX 78238 210-522-6090 210-522-5184 Part No. Qty Rev Bid TEM Price Ea. **Part Name** Total 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 Work Instructions: Total \$4,600.00 FOB: TEXAS TOOLMAKERS, INC. Page/Sheet **Quality Requirements:** As noted below None Material/Process Certification: ☐Yes ☐No Certificate of Compliance: Tes No | Source Inspection Tyes Pho Documented Dimensional Inspection: Wes No; If Yes: 1) Specified Dimensions Only, 2) Sampling, OR 3) 1700% Authorized TTI Representative: 10/8/02 Date: **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: TTI Form QF-030101 P.O. provided at time of review:

☐Yes ☐No