



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE

DEPARTMENT

REQUISITION DATE 6/11/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 624841
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SUGGESTED OR PREVIOUS SUPPLIER <b>Anaerobe Systems</b>	DELIVER TO <b>L. Yang/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Morgan Hill, CA</b>	SHIP VIA		
ATTN: <b>Jeremy McDonald</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>408/762-7557</b>	FAX <b>408/782-2031</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>URGENT PLEASE RUSH!!!!</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q1, Q7, Q13</b> product sheet data only</p> <p>c INSPECTION CRITERIA <i>SEE ABOVE</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE</p> <p><i>[Signature]</i> 6/12/03</p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <i>Lietai Yang</i> EXT. NO. <b>2483</b></p> <p>DEPT / DIVISION APPROVAL DATE: <b>6/11/03</b></p> <p>ADMIN APPROVAL DATE: <b>6/12/03</b></p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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FORM PH 1 (06/01)

**SOUTHWEST RESEARCH INSTITUTE**

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 VIA	DELIVER TO
'06/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
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SAN ANTONIO, TX 78216

100987

Contact: MIKE RIDGEWAY

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

**SOUTHWEST RESEARCH INSTITUTE**

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

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
07/23/03	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	MISC Crevice corrosion test specimens 20-01402.571-027 machined from Alloy 22 plate		EA	08/22/03	08/22/03	20.0000	149.5000	\$2,990.00
<p>***** * CONFIRMATION * *****</p> <p>This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).</p> <p>Req: 03001528 QC Insp Required</p> <p>Prime Contract #: NRC0202012      Priority: NONE AOP: 704-000 1.20      06002.01.081</p> <p>THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.</p> <p>AGREED &amp; ACCEPTED: _____</p> <p>DATE: _____</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.</p>								

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383903S**

Page: 2  
Date Printed: 07/23/2003

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

100987

Contact: MIKE RIDGEWAY

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383908S**

Page: 1  
Date Printed: 07/23/2003

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

509360

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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
07/23/03	Jimmie Silvers	NET 30	SHIPPING POINT		MOTOR FREIGHT	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC Alloy C-22 plate, 1 inch thick, 2 feet wide and 2 feet long			PCS 08/08/03	08/08/03	2.0000	1,432.2000	\$2,864.40
	Req: 03001505 QC Insp Required							
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
2	MISC Alloy C-22 plate, 0.5 inch thick, 2 feet wide and 4 feet long			PCS 08/08/03	08/08/03	2.0000	1,463.0000	\$2,926.00
	Req: 03001505 QC Insp Required							
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
3	MISC Alloy C-22 plate, 0.5 inch thick, 6 inches wide and 2 feet long			PCS 08/08/03	08/08/03	1.0000	184.8000	\$184.80
	Req: 03001505 QC Insp Required							
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383908S**

Page: 2  
Date Printed: 07/23/2003

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NORTHWOODS INDUSTRIAL PARK WEST  
12241 F.M. 529  
HOUSTON, TX 77041

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

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383789S**

Page: 1  
Date Printed: 07/03/2003

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

100987

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

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
03/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	Darrell Dunn/bldg. 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	MISC Crevice corrosion test specimens 20-01402-571-027 machined from Alloy 22 plate		EA	07/18/03	07/18/03	20.0000	149.5000	\$2,990.00
<p>***** * CONFIRMATION * *****</p> <p>This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).</p> <p>Req: 03000844 QC Insp Required</p> <p>Prime Contract #: NRC0202012      Priority: NONE AOP: 704-000 1.20      06002.01.081</p> <p>THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.</p> <p>AGREED &amp; ACCEPTED: _____</p> <p>DATE: _____</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.</p>								



**SOUTHWEST RESEARCH INSTITUTE**

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

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

**SOUTHWEST RESEARCH INSTITUTE**

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
16/03	Mary Hernandez <i>3813</i>	NET 30	SHIP POINT		FEDP-1 COLLECT	YI-MING PAN/BLDG 57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	MISC X-RAY PHOTOELECTRON SPECTROSCOPY ANALYSIS OF JOSEPHINITE AND A HAYNES NI-FE ALLOY, BOTH NON-TREATED AND ELECTROCHEMICALLY TREATED, TO DETERMINE THE THICKNESS, COMPOSITION, AND OXIDATION STATE OF THE SURFACE LAYER. TENTATIVE XPS ANALYSIS SCHEDULE JUNE 25 & 26 2003		EA	07/25/03	07/25/03	1.0000	2,400.0000	\$2,400.00
<p>***** * CONFIRMATION * *****</p> <p>This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).</p> <p>Req: 639556</p> <p>Prime Contract #: NRC0202012      Priority: NONE AOP: 704-000 1.20      06002.01.081</p> <p>QUALITY &amp; TECHNICAL REQUIREMENTS: QUALITY AFFECTING PURCHASE. A QUALIFIED CNWRA STAFF MEMBER WILL SUPERVISE THE VENDOR STAFF TO OBTAIN DATA AND DOCUMENT RESULTS IN SCIENTIFIC NOTEBOOK NO. 539.</p> <p>THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.</p> <p>AGREED &amp; ACCEPTED: _____</p> <p>DATE: _____</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS</p>								

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 366967M**

Page: 2  
Date Printed: 06/16/2003

Order To: RBD ENTERPRISES, INC 504560  
563 S.W. 13TH ST. SUITE 201  
BEND, OR 97702

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

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>6/11/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>639556</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>RBD Enterprises</b>	DELIVER TO <b>Yi-Ming Pan/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Bend, OR 97702</b>	SHIP VIA		
ATTN: <b>Carl Steinke</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>541/330-0723</b>	FAX <b>541/330-0991</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>Call Yi-Ming Pan with P.O. number.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input checked="" type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>QAP-016 Q=0</b></p> <p>c INSPECTION CRITERIA <b>None</b></p> <p>d QA APPROVAL (IF REQUIRED) DATE <b>6/11/2003</b></p> <p><i>RESULTS will be put in CNWRA S/N No. 539.</i></p> <p><i>SEM</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>YiMing Pan</b> EXT. NO. <b>6640</b></p> <p>DEPT. / DIVISION APPROVAL <b>YiMing Pan</b> DATE <b>6/11/03</b></p> <p>ADMIN. APPROVAL <b>Dr. Young for V.S.</b> DATE <b>6/12/03</b></p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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PURCHASE REQUISITION



SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE <b>6/11/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>639556</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>RBD Enterprises</b>		DELIVER TO <b>Yi-Ming Pan/bldg. 57</b>		PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Bend, OR 97702</b>		SHIP VIA			
ATTN: <b>Carl Steinke</b>		F.O.B.		SUPPLIER CODE	
PHONE <b>541/330-0723</b>		TERMS		PHONE	
FAX <b>541/330-0991</b>				FAX	

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

INTERNAL NOTES TO BUYER <b>Call Yi-Ming Pan with P.O. number.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
--	----------------------------------	-------

<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input checked="" type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q A CODES: <b>QAP 016 Q20</b></p> <p>c INSPECTION CRITERIA <b>None</b></p> <p>d QA APPROVAL (IF REQUIRED) DATE <b>6/11/03</b></p> <p><i>Results will be put in CNWRA S/N No. 539.</i></p> <p><i>Yi-Ming Pan</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Yi-Ming Pan</b> EXT. NO. <b>6640</b></p> <p>DEPT. / DIVISION APPROVAL DATE <b>6/11/03</b></p> <p>ADMIN. APPROVAL DATE <b>6/12/03</b></p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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563 SW 13th Street  
 Bend OR 97702  
 Phone Number 541-330-0723  
 Fax Number 541-330-0991

**QUOTE**

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

Quote To:

Southwest Research Institute  
 Yi-Ming Pan

Terms: Net 30 days

Delivery: 45 days ARO

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

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

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

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

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

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

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

**UNLESS OTHERWISE NOTED SHIPPING EXPENSES ARE NOT INCLUDED IN THE QUOTE**

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

**Special Instructions:**

**07/09/03**

**Expiration Date**

*Carl Steinke*

Carl Steinke

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

JUSTIFICATION FOR ITEMS ON PURCHASE REQUISITION NUMBER:

SUGGESTED VENDOR: (If Applicable) RBD Enterprises

Item: A

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

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

  
SIGNATURE

6/11/2003  
DATE





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 SiO<sub>2</sub> film. Your bimetallic film (FeNi) may or may not sputter at the same rate as SiO<sub>2</sub>. 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

**SOUTHWEST RESEARCH INSTITUTE**

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

103431

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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/13/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	MISC C-22 WELD SPECIMENS CNWRA DRAWING 20-06002-01-081-001		EA	06/30/03	06/30/03	4.0000	975.0000	\$3,900.00
	Req: 624836  Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081							
2	MISC DELIVERY OF MACHINED SPECIMENS QUALITY & TECHNICAL REQUIREMENT: SPECIMENS MACHINED AS PER CNWRA DRAWING 20-06002-01-081-001. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20-06002-01-081-001 IS REQUIRED. SPECIMENS CUT FROM ALLOY 22 PLATE PER 20-06002-01-081-002.		EA	06/30/03	06/30/03	1.0000	90.0000	\$90.00
	Req: 624836  Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081							
THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.								
AGREED & ACCEPTED: _____								

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383674S**

Page: 2  
Date Printed: 06/13/2003

Order To: INDUSTRIAL MECHANICAL INC. 103431  
5797 DIETRICH ROAD  
BOX 200350  
SAN ANTONIO, TX 78286

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
6/13/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>DATE: _____</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p> <p>SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.</p> <p>Your organization will provide services to the Center for Nuclear Waste Regulatory Analyses(CNWRA) in accordance with the requirements of your quality system or that of the CNWRA Quality Assurance Manual. any special technical or QA procedures required in the performance of your staff members' work will be provided. Special CNWRA requirements apply to scientific and engineering software and must be followed. Your organization's product will be accepted based on an evaluation by the CNWRA Principal Investigator or technical staff member and will be returned for rework at Seller's expense if the product does not meet CNWRA requirements. If scientific notebooks are utilized, they are subject to periodic review and must be returned at the conclusion of work to the CNWRA QA Records Room, or invoice remittance will be withheld. Additionally, there shall be "right of access" to your facility to confirm effective implementation of the quality requirements with the possibility of audits, source inspections, or surveillances. Any special documentation requirements shall be specified in the purchase order and will be supplied to the CNWRA with the product. The Seller shall notify CNWRA QA of any nonconformance to the requirements of this purchase order; further work shall not be done unless directed by CNWRA Director of QA at (210) 522-5149.</p> <p>Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510</p>							
							PO Total Amt:	\$3,990.00

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
 San Antonio, TX 78238-5166

**Purchase Order: 383674S**

Page: 3  
 Date Printed: 06/13/2003

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

103431

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
'13/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<hr/> Authorized Signature(s)							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>5/21/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>✓624836</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Industrial Mechanical Company</b>	DELIVER TO <b>Darrell Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN: <b>A.E. Sonny Rogers, Jr.</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>662-4596</b>	FAX <b>662-4503</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>Call Darrell Dunn at x6090 with P.O. # when issued.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q A CODES: <b>Q11, Q20</b></p> <p>c INSPECTION CRITERIA</p> <p>d QA APPROVAL (IF REQUIRED) DATE</p> <p><i>Darrell Dunn 5/21/03</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL DATE</p> <p>ADMIN. APPROVAL DATE</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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**SOUTHWEST RESEARCH INSTITUTE**

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
05/29/03	Jimmie Silvers	NET 10	DESTINATION		VENDOR TRUCK	DARRELL DUNN B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
1	MISC 3/32" DIA X 36" LONG BARE ELECTRODES NICRMO-10 FILLER METAL QUALITY & TECHNICAL REQUIREMENTS: QUALITY AFFECTING PURCHASE. MATERIAL MUST MEET THE COMPOSITIONAL SPECIFICATIONS SFA A5.14 AWS CLASSIFICATION ERNICRMO-10 FOR WELD FILLER METAL. VENDOR WILL PROVIDE A COPY OF THE MILL TEST REPORT CONTAINING FOR THE PLATE WITH THE HEAT NUMBER. AN INDEPENDANT CHEMICAL ANALYSES OF THE MATERIAL WILL BE PERFORMED. ACCEPTANCE OF THE MATERIAL WILL BE DETERMINED BY THE OUTCOME OF THE INDEPENDANT CHEMICAL ANALYSES.		LB	06/03/03	06/03/03	20.0000	19.4500	\$389.00
<p>***** * CONFIRMATION * *****</p> <p>This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).</p> <p>Req: 624837 QC Insp Required</p> <p>Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081</p> <p>SWRI QA RECEIVING INSPECTION CRITERIA: PI TO INSPECT PER QAP-016 UPON RECEIPT.</p> <p>THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.</p> <p>AGREED &amp; ACCEPTED: _____</p> <p>DATE: _____</p>								

**SOUTHWEST RESEARCH INSTITUTE**

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
05/29/03	Jimmie Silvers	NET 10	DESTINATION		VENDOR TRUCK	DARRELL DUNN B57

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>5/21/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>624837</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Welders Supply</b>	DELIVER TO <b>Darrell Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN:	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>684-0232</b>	FAX	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>Call Darrell Dunn at x6090 with P.O.# when issued.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	<b>TOTAL</b>
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1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b Q A CODES: <b>G4</b> c INSPECTION CRITERIA d QA APPROVAL (IF REQUIRED) DATE <i>Mark R. Ernstom 5/21/03</i>	3. SOURCING NOTES IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b> DEPT / DIVISION APPROVAL: <i>[Signature]</i> DATE <b>5/21</b> ADMIN. APPROVAL: _____ DATE _____	4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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FORM PR 1 (06/01)



Purchase Order # 370238N

Detail of Line # 1

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

## Full Description:

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

## Deliver to:

DARRELL DUNN X6090



PURCHASE REQUISITION

PURCHASING

SOUTHWEST RESEARCH INSTITUTE™

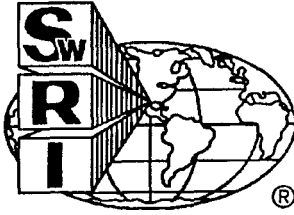
REQUISITION DATE <b>6/12/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>839557</b>
SUGGESTED OR PREVIOUS SUPPLIER <b>Staveley Services Materials Testing</b>		PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Glendale Heights, IL 60139</b>		SHIP VIA	
ATTN: <b>Frank Donmez</b>		SUPPLIER CODE	ATTN
PHONE <b>630/681-0008</b>	FAX <b>630/871-5520</b>	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	1	EA	Chemical analyses of ER NiCrMo-10 filler metal	20	06002.01.	081	100	6/23/03	120.00
Quality & Technical Requirements: See attached documentation.									

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

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

June 11, 2003

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

Frank Donmez  
Staveley Services Materials Testing

Dear Mr. Donmez,

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

The specified chemical composition is provided below.

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

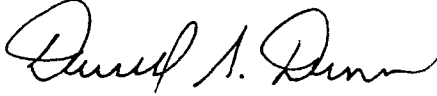
A copy of the specification requirements in AWS A5.14 and a copy of the mill test report are included.

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

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

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

Sincerely,

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

Darrell S. Dunn

Table 1 (Continued)

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

(continued)

ANSI/AWS  
 A 5.14 / A 5.14 M-97

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

UNION, IL  
UNION, IL (WELDING)

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



**TECHALLOY** Company, Inc.  
Arcelor Group

BALTIMORE, MD  
HOUSTON, TX  
PERRIS, CA

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

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

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

### CERTIFIED MATERIAL TEST REPORT

SOLD  
TO

SHIP  
TO

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

#### ITEM DESCRIPTION

DESCRIPTION  Techalloy 622 .093B 36"Printed	SPEC. CLASS ERNICRMO10	HEAT WN813
	QTY SHIP	SHIP FROM 006

#### CHEMICAL ANALYSIS

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

#### MECHANICAL PROPERTIES

AS WELDED PROPERTIES:

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POST WELD HEAT TREAT PROPERTIES:

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

*Perry Carney*  
AUTHORIZED SIGNATURE

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

**Purchase Order #** 378926Q

**Vendor:** IHI SOUTHWEST  
TECHNOLOGIES, INC.

**Order Date:** 05/13/03

**Due Date:** 05/16/03

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	<u>DESCRIPTION</u>
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	
1	1	0	0		N/A	\$440.00	SERVICE PURCHASE ORDER

**Total \$440.00**

**NOTES:** (none)

**FOOTNOTES:** P8 P9 P10 P12 P90 Q20 Q12



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>5/9/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>639551</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>IHI Southwest</b>	CITY, STATE	DELIVER TO <b>D. Dunn/bldg. 57</b>	SHIP VIA	PURCHASING SELECTED SUPPLIER
ATTN: <b>Fred Anderson</b>	PHONE <b>256-4108</b>	FAX <b>521-2311</b>	F.O.B.	SUPPLIER CODE ATTN
			TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>Call Darrell Dunn at x6090 with P.O. #</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	<b>TOTAL</b>
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input checked="" type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20, Q12</b></p> <p>c INSPECTION CRITERIA <i>RECEIVING INSPECTION PER QAP-016.</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>Dunn Malabo 5/9/03</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL: <i>[Signature]</i> DATE <b>5/9/03</b></p> <p>ADMIN. APPROVAL: _____ DATE _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 359368K**

Page: 1  
Date Printed: 06/13/2003

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

506523

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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
06/12/03	Ronald Keller	1% 10	SHIPPING POINT		FED-X-P1	LIETAI YANG B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC AS-888B MODIFIED BAAR'S BROTH, 10 TUBES PER PKG, 9ML PER TUBE, DESULFOVIBRIO		PK	07/07/03	06/12/03	20.0000	15.8500	\$317.00
				Req: 639555				
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
2	MISC AS-889B NUTRIENT BROTH, 1.5% NAC1, 10 TUBES PER PKG, VIBRIO, 9ML PER TUBE		PK	07/07/03	06/12/03	24.0000	13.8500	\$332.40
				Req: 639555				
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.								
AGREED & ACCEPTED: _____  DATE: _____								
"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED								

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 359368K**

Page: 2  
Date Printed: 06/13/2003

Order To: ANAEROBE SYSTEMS 506523  
15906 CONCORD CIRCLE  
MORGAN HILL, CA 95037

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

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>6/11/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <input checked="" type="checkbox"/> <b>639555</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Anaerobe Systems</b>	DELIVER TO <b>Lietai Yang/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Morgan Hill, CA</b>	SHIP VIA		
ATTN: <b>Jeremy McDonald</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>408/782-7557m</b>	FAX <b>408/782-2031</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>URGENT, PLEASE RUSH, CALL L. YANG WITH P.O.#</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q1, Q7, Q13</b> <b>product data sheet only</b></p> <p>c INSPECTION CRITERIA <i>SEE ABOVE</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>[Signature]</i> 6/11/03</p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Lietai Yang</b></p> <p>EXT. NO. <b>2483</b></p> <p>DEPT / DIVISION APPROVAL <i>[Signature]</i> DATE <b>6/11/03</b></p> <p>ADMIN. APPROVAL <i>[Signature]</i> DATE <b>6/12/03</b></p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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Order To: ANAEROBE SYSTEMS  
 15906 CONCORD CIRCLE  
 MORGAN HILL, CA 95037

506523

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

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

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

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC AS-888B MODIFIED BAAR'S BROTH, 10 TUBES PER PKG, 9 ML PER TUBE, DESULFOVIBRIO		PK	06/17/03	06/12/03	12.0000	15.8500	\$190.20
				Req: 624842				
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
2	MISC AS-888A MODIFIED BAAR'S AGAR, 4 PLATES PER PKG DESULFOVIBRIO		PK	06/17/03	06/12/03	27.0000	7.4000	\$199.80
				Req: 624842				
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
3	MISC AS-889B NUTRIENT BROTH, 1.5% NAC1, 10 TUBES PER PKG, 9 ML PER TUBE		PK	06/17/03	06/12/03	12.0000	13.8500	\$166.20
				Req: 624842				
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
4	MISC AS-889A NUTRIENT AGAR WITH 1.5% NAC1 4 PLATES PER PKG,		PK	06/17/03	06/12/03	27.0000	7.4000	\$199.80

**SOUTHWEST RESEARCH INSTITUTE**

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

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

**SOUTHWEST RESEARCH INSTITUTE**

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>6/11/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>624842 ✓</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Anaerobe Systems</b>		DELIVER TO <b>Lietai Yang/bldg. 57</b>		PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Morgan Hill, CA</b>		SHIP VIA			
ATTN: <b>Jeremy McDonald</b>		F.O.B.		SUPPLIER CODE	
PHONE <b>408/782-7557</b>		TERMS		PHONE	
FAX <b>408/782-2031</b>				FAX	

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
<b>A</b>	<b>12</b>	<b>Pkg</b>	<b>AS-888B modified Baar's broth, 10 tubes per pkg, 9 ml per tube, desulfovibrio</b>	<b>20</b>	<b>06002.01.</b>	<b>081</b>	<b>100</b>	<b>6/12/03</b>	<b>15.85</b>
<b>B</b>	<b>27</b>	<b>Pkg</b>	<b>AS-888A modified Baar's agar, 4 plates per pkg, desulfovibrio</b>	<b>20</b>	<b>06002.01.</b>	<b>081</b>	<b>100</b>	<b>6/12/03</b>	<b>7.40</b>
<b>C</b>	<b>16</b>	<b>Pkg</b>	<b>AS-889B nutrient broth, 1.5% NaCl, 10 tubes per pkg, vibrio, 9 ml per tube</b>	<b>20</b>	<b>06002.01.</b>	<b>081</b>	<b>100</b>	<b>6/12/03</b>	<b>13.85</b>
<b>D</b>	<b>27</b>	<b>Pkg</b>	<b>AS-889A nutrient agar with 1.5% NaCl 4 plates per pkg, vibrio</b>	<b>20</b>	<b>06002.01.</b>	<b>081</b>	<b>100</b>	<b>6/13/03</b>	<b>7.40</b>
<b>Quality &amp; Technical Requirements: Certificate of compliance must be provided.</b> <i>ACCEPTANCE TEST will be conducted in The CARORA Laboratory and will consist of successfully culturing the microbes of interest. See</i> <b>URGENT, PLEASE RUSH!!!</b>									

INTERNAL NOTES TO BUYER <b>Products already received, need P.O.#</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	<b>TOTAL</b>
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1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES) a <input checked="" type="checkbox"/> G-1 CONSUMABLE b <input type="checkbox"/> G-2 DELIVERABLE c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input type="checkbox"/> YES <input type="checkbox"/> NO	2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b QA CODES: <b>Q1, Q7, Q13</b> <b>product data sheet only</b> c INSPECTION CRITERIA <b>SEE ABOVE</b> d QA APPROVAL (IF REQUIRED) DATE <i>[Signature]</i> 6/12/03	3. SOURCING NOTES IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION. REQUESTOR'S SIGNATURE <b>Lietai Yang</b> DEPT / DIVISION APPROVAL DATE <i>[Signature]</i> 6/11/03 ADMIN. APPROVAL DATE <i>[Signature]</i> 6/12/03	4. REPAIRS a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. _____
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CONTRACT REVIEW APPROVAL DATE	BUYER SIGNATURE <i>[Signature]</i> DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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FORM 101 (03/01)

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383597S**

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

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

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



**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383597S**

Page: 2  
Date Printed: 06/03/2003

Order To: OFFENHAUSER COMPANY INC 512241  
2201 TELEPHONE RD.  
HOUSTON, TX 77223

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

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

**SOUTHWEST RESEARCH INSTITUTE**

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

512241

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
06/03/03	Jimmie Silvers	NET	SHIPPING POINT		BEST WAY	DARRELL DUNN B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<hr/> Authorized Signature(s)							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 5/21/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 624835
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SUGGESTED OR PREVIOUS SUPPLIER <b>Offenhauser Company</b>	DELIVER TO <b>Darrell Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Houston, TX</b>	SHIP VIA		
ATTN: <b>Pete Blackburn</b>	FO.B.	SUPPLIER CODE	ATTN
PHONE <b>713/590-2531</b>	FAX <b>713/928-2465</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>Call Darrell Dunn with P.O. # when issued.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20</b></p> <p>c INSPECTION CRITERIA</p> <p>d QA APPROVAL (IF REQUIRED) DATE</p> <p><i>Mark R. Johnston 5/21/03</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL: <i>[Signature]</i> DATE: <b>5/21</b></p> <p>ADMIN. APPROVAL: <i>[Signature]</i> DATE:</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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FORM PRT (06/01)

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 351243J**

Page: 1  
Date Printed: 04/24/2003

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

512241

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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
04/24/03	Jesse Lozano	NET	SHIPPING POINT		BEST WAY	D DUNN B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC GAS TUNGSTEN ARC WELD ALLOY C-22 PLATES PER OFFENHAUSER WPS P44-13 QUALITY AND TECHNICAL REQUIREMENTS: WELD WILL BE PERFORMED IN ACCORDANCE WITH OFFENHAUSER WPS P44-13 USING ERNICRMO-10 FILLER METAL SUPPLIED BY SWRI. PENETRANT TESTING OF THE ROOT PAS SHALL BE PERFORMED BY QUALIFIED PERSONNEL. DOCUMENTATION OF THE PENETRANT TEST RESULTS AND ALL PERSONNEL QUALIFICATIONS WILL BE PROVIDED. OFFENHAUSER WILL NOTIFY SWRI OF ANY REPORTABLE INDICATIONS. REPAIRS SHALL NOT BE PERFORMED WITHOUT APPROVAL FROM SWRI. SWRI WILL SUPPLY ALLOY 22 PLATES TO BE WELDED. THIS IS A PRACTICE WELD PIECE FOR THE PURPOSE OF DETERMINING THE CAPABILITY OF OFFENHAUSER COMPANY. THE RESULTS OF THIS WELD OF ALLOY C-22 MATERIAL WITH A DOUBLE-J GROOVE JOINT WILL BE EVALUATED USING RADIOGRAPHIC TESTING. THE COMPLETED WELD WILL NOT BE USED TO PRODUCE SPECIMENS FOR CORROSION OR MECHANICAL PROPERTY TESTS.		EA	04/29/03	04/29/03	1.0000	200.0000	\$200.00
Req: 639544  Prime Contract #: NRC0202012 Priority: NONE AOP: 704-000 1.20 06002.01.081  SWRI QA RECEIVING INSPECTION CRITERIA: QAP-016  THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.								

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 351243J**

Page: 2  
Date Printed: 04/24/2003

Order To: OFFENHAUSER COMPANY 512241  
2201 TELEPHONE RD.  
HOUSTON, TX 77223

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
04/24/03	Jesse Lozano	NET	SHIPPING POINT		BEST WAY	D DUNN B57

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 351243J**

Page: 3  
Date Printed: 04/24/2003

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

512241

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
04/24/03	Jesse Lozano	NET	SHIPPING POINT		BEST WAY	D DUNN B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Authorized Signatures							



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>4/7/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>639544</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Offenhauser Company</b>	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Houston, TX</b>	SHIP VIA		
ATTN: <b>Pete Blackburn</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>713/590-2531</b>	FAX <b>713/928-2465</b>	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	1	EA	Gas Tungsten arc weld Alloy C-22 plates per Offenhauser WPS P44-13	20	06002.01.	081	100	4/25/03	200.00
<p><b>Quality &amp; Technical Requirements:</b> Weld will be performed in accordance with Offenhauser WPS P44-13 using ERNiCrMo-10 filler metal supplied by SwRI. Penetrant testing of the root pass shall be performed by qualified personnel. Documentation of the penetrant test results and all personnel qualifications will be provided. Offenhauser will notify SwRI of any reportable indications. Repairs shall not be performed without approval from SwRI. SwRI will supply Alloy 22 plates to be welded. <i>This is a PRACTICE WELD PIECE FOR THE PURPOSE OF DETERMINING THE CAPABILITY OF OFFENHAUSER COMPANY. THE RESULTS OF THIS WELD OF ALLOY C-22 MATERIAL WITH A DOUBLE-J GROOVE JOINT WILL BE EVALUATED USING RADIOGRAPHIC TESTING. THE COMPLETED WELD WILL NOT BE USED TO PRODUCE SPECIMENS FOR CORROSION OR MECHANICAL PROPERTY TESTS.</i></p>									

INTERNAL NOTES TO BUYER <b>Please call D. Dunn at x6090 when P.O. # is issued.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20</b></p> <p>c INSPECTION CRITERIA <i>RECEIVING INSPECTION per QAP-016.</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>Dunn/Kalantz 4/8/2003</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT / DIVISION APPROVAL: <i>[Signature]</i> DATE <b>4/8/03</b></p> <p>ADMIN. APPROVAL: _____ DATE _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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Fax (713) 928-2466  
Phone (713) 928-2901  
(800) 228-4811



# OFFENHAUSER COMPANY

2201 TELEPHONE RD.  
P. O. BOX 230068  
HOUSTON, TX, 77228

**Fax Transmittal**

To: Southwest Research Institute

DATE : 03/06/2003

Attn: Darell Dunn

Fax #: (210) 522-5184

From: Pete Blackburn

Number of Pages Being Sent Including This Cover Letter:

**14**

**Message / Comments:**

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

2 pcs 1" plate x 3" wide x 24" long \$283.00 each  
Welded GTAW only.

2 pcs 1" plate x 3" wide x 24" long \$248.00 each  
Welded GTAW/GMAW.

Please see attached U stamp and WPS and PQR

Please call if you have any questions.



Purchase Order # 370226N

Detail of Line # 1

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

## Full Description:

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

## Deliver to:

DARRELL DUNN X6090



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>2/13/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637650</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>IHI Southwest</b>	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN: <b>Fred Anderson</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>256-4108</b>	FAX <b>521-2311</b>	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
<u>A</u> 1		EA	<b>Penetrant test root pass of Alloy 22 weld</b>	20	06002	01.081	100	2/14/03	200.00
<b>Quality &amp; 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.</b>									

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

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

a  G-1 CONSUMABLE

b  G-2 DELIVERABLE

c  G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

YES

NO

2. QUALITY ASSURANCE?  YES  NO

a ASL REQUIRED?  YES  NO

b Q A CODES: **Q20, Q12**

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED) DATE

*Mary R. Elston* 2/13/03

3. SOURCING NOTES

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

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

REQUESTOR'S SIGNATURE: **Darrell Dunn** EXT. NO. **6090**

DEPT. / DIVISION APPROVAL DATE: **2/13/03**

ADMIN. APPROVAL DATE

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?  YES  NO

b IS THE REPAIR ON OR OFF CAMPUS?  ON  OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. \_\_\_\_\_

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra 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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
01/09/03	Jimmie Silvers	NET 30	DEST		VENDOR TRUCK	DARRELL DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC C22 WLD SPECIMENS CNWRA DRAWING 20-06002-01-081-001		EA	01/17/03	01/17/03	4.0000	337.5000	\$1,350.00
	Req: 637644							
	Prime Contract #: NRC0202012		Priority: NONE					
	AOP: 704-000 1.20		06002.01.081					
2	MISC DELIVERY OF MACHINED SPECIMENS		EA	01/17/03	01/17/03	1.0000	90.0000	\$90.00
	Req: 637644							
	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."								

**SOUTHWEST RESEARCH INSTITUTE**

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

103431

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

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>1/7/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637644</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Industrial Mechanical Company</b>	DELIVER TO <b>Darrell Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN: <b>A.E. Sonny Rogers, Jr.</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>662-4596</b>	FAX <b>662-4503</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	<b>TOTAL</b>
-------------------------	----------------------------------	--------------

<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q.A. CODES: <b>Q11, Q20</b></p> <p>c INSPECTION CRITERIA <b>PI TO INSPECT PER QAP-016.</b></p> <p>d QA APPROVAL (IF REQUIRED) DATE <b>[Signature] 1/7/2003</b></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL <b>[Signature]</b> DATE <b>1/7/03</b></p> <p>ADMIN. APPROVAL _____ DATE _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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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.

	<u>Each</u>	<u>Total</u>
(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  
SwRI-CNWRA  
Phone: (210) 522-6090  
Fax: (210) 522-5184  
e-mail: ddunn@swri.org

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

Page 1 of 2

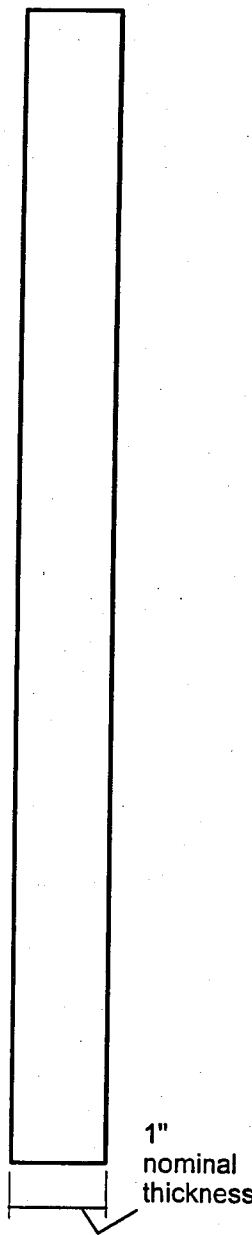
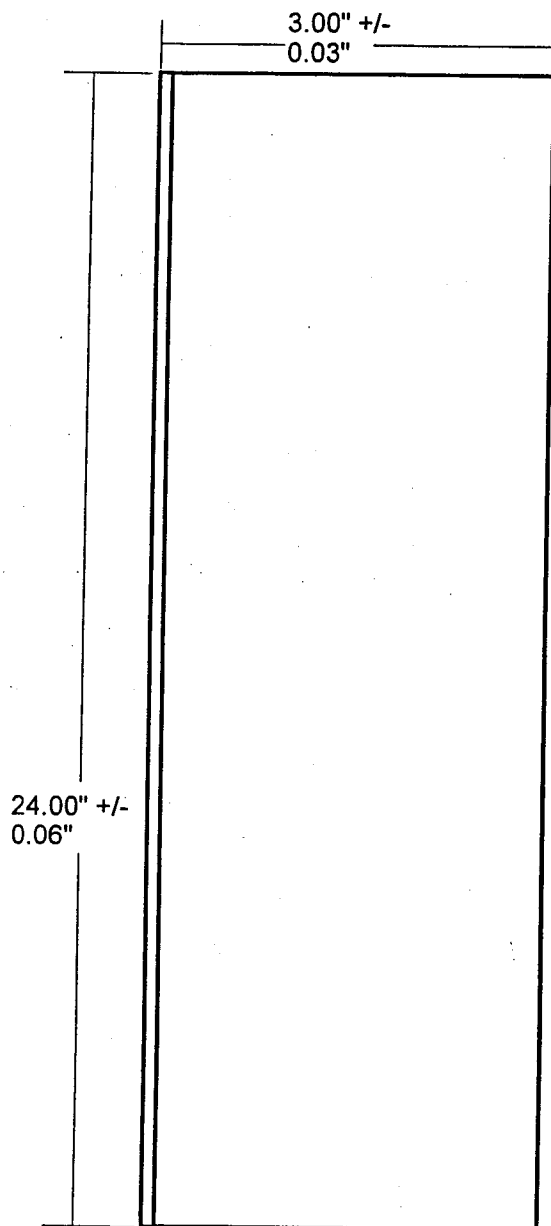
To be completed at time of order:

Material: \_\_\_\_\_

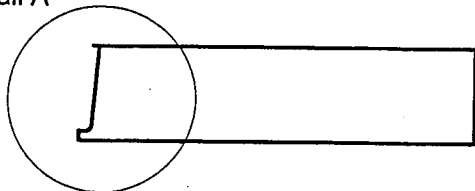
Heat: \_\_\_\_\_

Specimen Orientation: \_\_\_\_\_

Other: \_\_\_\_\_



Detail A



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

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

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

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

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

Page 2 of 2

To: completed at time of order:

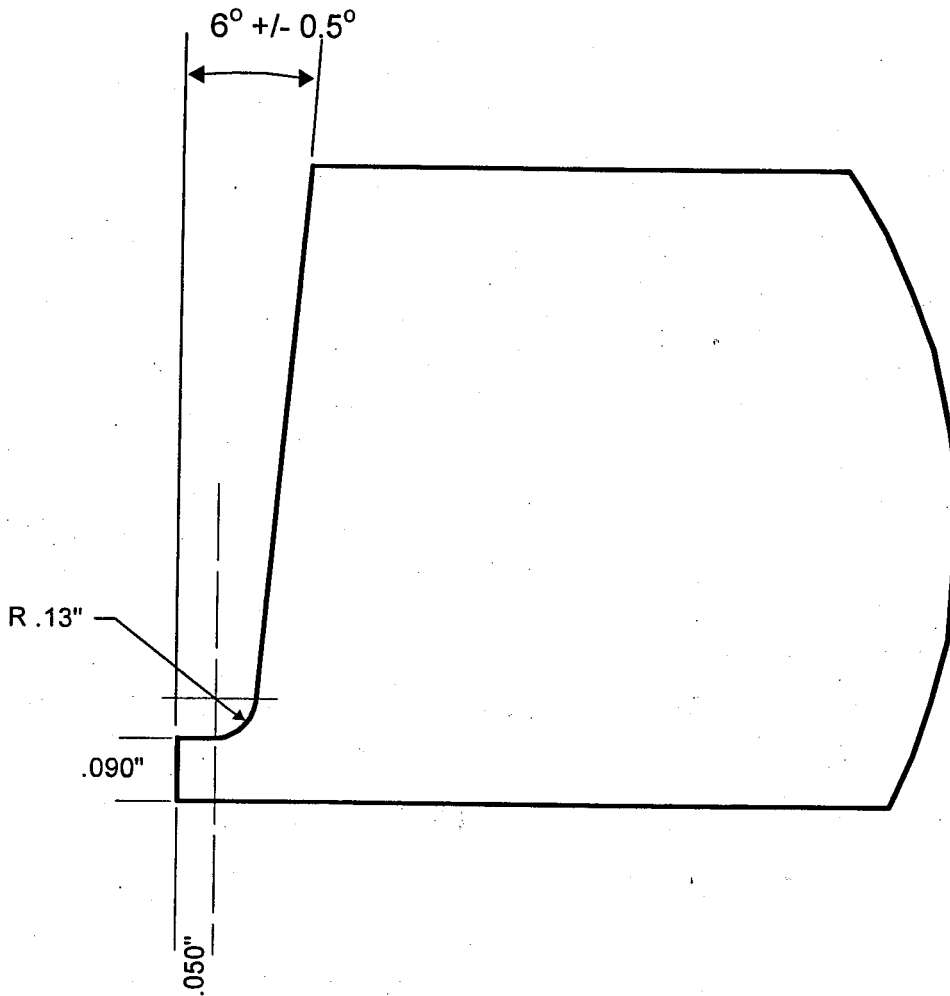
Material: \_\_\_\_\_

Heat: \_\_\_\_\_

Specimen Orientation: \_\_\_\_\_

Other: \_\_\_\_\_

Detail A



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

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

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



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

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<b>Acct ID</b>	<b>Proj ID</b>	<b>Org ID</b>	<b>Cst Pct</b>
705-000	06002.01.081	1.20	100.00%

## Full Description:

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

## Deliver to:

DARRELL DUNN EXT 6090



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>1/16/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637646</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Conam Inspection</b>		DELIVER TO <b>D. Dunn/bldg. 57</b>		PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Glendale Heights, IL 60139</b>		SHIP VIA			
ATTN: <b>Bill Scorzo</b>		F.O.B.		SUPPLIER CODE	
PHONE <b>630/681-0008</b>		FAX <b>630/871-5520</b>		ATTN	
		TERMS		PHONE	
				FAX	

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
<b>A</b>	<b>2</b>	<b>EA</b>	<b>Chemical analyses of ER NiCrMo-10</b>						
			<b>filler metal</b>	<b>20</b>	<b>06002.01.</b>	<b>081</b>	<b>100</b>	<b>1/23/03</b>	<b>150.00</b>
<b>Quality &amp; Technical Requirements: See attached documentation.</b>									

INTERNAL NOTES TO BUYER <b>Call D. Dunn at x6090 when P.O. # is issued.</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	<b>TOTAL</b>
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20, Q12</b></p> <p>c INSPECTION CRITERIA <i>NI to inspect per QAP-016</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>[Signature]</i> <b>1/16/03</b></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Barrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL: <i>[Signature]</i> DATE: <b>1/16/03</b></p> <p>ADMIN. APPROVAL: _____ DATE: _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input checked="" type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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**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](mailto:ddunn@swri.org)

Bill Scorzo  
Conam Inspection

Dear Mr. Scorzo,

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

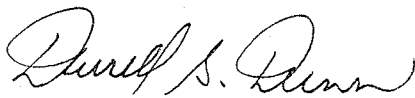
Cr: 20.0 - 22.5  
Mo: 12.5 - 14.5  
W: 2.5 - 3.5  
Fe: 2.0 - 6.0  
C: 0.015 max  
Co: 2.5 max  
Mn: 0.50 max  
P: 0.02 max  
S: 0.010 max  
Si: 0.08 max  
V: 0.35 max  
Cu: 0.50  
Others Elements Total: 0.5  
Ni: balance

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

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

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

Sincerely,

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

Darrell S. Dunn

Table 1 (Continued)

AWS Classification <sup>m</sup>	UNS Number <sup>c</sup>	Weight-Percent <sup>a,b</sup>													Nb plus Ta	Mo	V	W	Other Elements Total
		C	Mn	Fe	P	S	Si	Cu	Ni <sup>d</sup>	Co	Al	Ti	Cr						
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 <sup>k</sup>	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)

ACTUAL MATERIAL TEST REPORT



AMERICAN FILLER METALS

6060 Donoho Street • Houston, Texas 77033

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

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

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

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

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

Authorized Representative



-----  
**ACTUAL MATERIAL TEST REPORT**  
 -----



**AMERICAN  
 FILLER METALS**

6060 Donoho Street • Houston, Texas 77033

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

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

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

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

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

  
 \_\_\_\_\_  
 Authorized Representative



**SOUTHWEST RESEARCH INSTITUTE**

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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
1 8/02	Betty Varnon	NET 30	SHIPPING POINT		VENDOR TRUCK	FAX TO BYRON CHAPA

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



**SOUTHWEST RESEARCH INSTITUTE**

**Purchase Order: 370227N**

7 Culebra Road  
San Antonio, TX 78238-5166

Page: 1  
Date Printed: 02/24/2003

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

503036

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

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

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 4/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).							
1	SERVICES 01 SERVICE PURCHASE ORDER RADIOGRAPHIC INSPECTION OF ALLOY 22 WELD		EA	02/24/03	02/24/03	1.0000	440.0000	\$440.00
	QUALITY & TECHNICAL REQUIREMENTS: QUALITY AFFECTING ITEM, TEST PROCEDURES MUST BE COMPLIANT WITH ASME CODE. NDE CERTIFICATIONS REQUIRED FOR INDIVIDUALS PERFORMING AND REVIEWING RADIOGRAPHIC INSPECTION. "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."							

**SOUTHWEST RESEARCH INSTITUTE**

**Purchase Order: 370227N**

6766 Culebra Road  
San Antonio, TX 78238-5166

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 ORDER	SHIP VIA	DELIVER TO
0 4/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
 San Antonio, TX 78238-5166

**Purchase Order: 370227N**

Page: 3  
 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 ORDER	SHIP VIA	DELIVER TO
02/24/03	Florence Cisneros	NET 30	DESTINATION		N/A	DARRELL DUNN X6090

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>OR NATURE, ARISING FROM THE PERFORMANCE OF ANY SERVICES HEREUNDER AND HOWSOEVER THE SAME BE CAUSED; EXCEPT AS A RESULT OF THE SOLE NEGLIGENCE OF THE INSTITUTE.</p> <p>BY ACCEPTANCE OF THIS PURCHASE ORDER FOR THE PERFORMANCE OF SERVICES REQUIRED, THE SELLER AGREES AND COVENANTS THAT THE FOLLOWING CONDITIONS ARE MET WHEN PROVIDING ANY EMPLOYEE OF SELLER:</p> <ol style="list-style-type: none"> <li>NONE OF SELLER'S EMPLOYEES WHO PROVIDE SERVICES TO BUYER PURSUANT TO THIS PURCHASE ORDER ARE UNAUTHORIZED ALIENS AS DEFINED IN THE IMMIGRATION REFORM AND CONTROL ACT OF 1986; AND</li> <li>IF SELLER'S EMPLOYEES ARE FOREIGN NATIONAL WORKERS PRESENT IN THE UNITED STATES UNDER A NONIMMIGRANT VISA CATEGORY THAT CARRIES AUTHORIZATION TO WORK, SELLER WILL FURNISH TO BUYER A COPY OF THE APPROPRIATE WORK AUTHORIZATION DOCUMENT FOR EACH FOREIGN NATIONAL WORKER VERIFYING THE WORK AUTHORIZATION, INCLUDING BUT NOT LIMITED TO COPY OF EMPLOYMENT AUTHORIZATION DOCUMENT, APPROVED FORM I-797 AND CERTIFIED LABOR CONDITION APPLICATION, OR OTHER ACCEPTABLE DOCUMENTATION. SUCH EMPLOYEES WILL ONLY BE UTILIZED TO PERFORM SERVICES WHICH ARE NOT EXPORT CONTROLLED; AND</li> <li>ALL OF SELLER'S EMPLOYEES WHO ARE TO PERFORM SERVICES WHICH ARE EXPORT CONTROLLED SHALL BE UNITED STATES CITIZENS OR LEGAL PERMANENT RESIDENTS OF THE UNITED STATES.</li> </ol> <p>Bill To:                      SOUTHWEST RESEARCH INSTITUTE</p>							

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
 San Antonio, TX 78238-5166

**Purchase Order: 370227N**

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>2/19/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ <b>637651</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>IHI Southwest</b>	CITY, STATE	DELIVER TO <b>D. Dunn/bldg. 57</b>	SHIP VIA	PURCHASING SELECTED SUPPLIER
ATTN: <b>Fred Anderson</b>	PHONE <b>256-4108</b>	FAX <b>521-2311</b>	F.O.B.	SUPPLIER CODE ATTN
			TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
1		EA	Radiographic inspection of Alloy 22 weld	20	06002	01.081	100	2/25/03	\$440.00
<p><b>Quality &amp; Technical Requirements: Quality affecting item, test procedures must be compliant with ASME code. NDE certifications required for individuals performing and reviewing radiographic inspection.</b></p> <p><i>"Quality Affecting Purchase."</i></p>									

INTERNAL NOTES TO BUYER <b>Call D. Dunn with P.O. #</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input checked="" type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20, Q12</b></p> <p>c INSPECTION CRITERIA <i>P.I. To inspect per QAP-016</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>Dunn Malabo 2/19/03</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Darrell Dunn</b></p> <p>EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL <i>[Signature]</i></p> <p>DATE <b>2/19/03</b></p> <p>ADMIN. APPROVAL DATE</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
---	---	--	--

CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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Order To: TEXAS TOOL MAKERS  
 11411 E. COKER LOOP  
 SAN ANTONIO, TX 78216

100987

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

Contact: MIKE RIDGEWAY

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 383229S**

Page: 2  
Date Printed: 03/06/2003

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

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
06/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57

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

**SOUTHWEST RESEARCH INSTITUTE**  
 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

100987

Contact: MIKE RIDGEWAY

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





SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE 03/03/03	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ 632625
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SUGGESTED OR PREVIOUS SUPPLIER <b>Texas Toolmakers</b>		DELIVER TO <b>D. Dunn/Bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>11411 Coker Loop</b>		SHIP VIA		
ATTN: <b>Mike Ridgway</b>		F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>210/ 494-3651</b>	FAX <b>210/ 4946139</b>	TERMS	PHONE	FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	20	ea.	Crevice corrosion test specimens	20	X 06002.01	081	100	03/26/03	\$149.50
			20-1402-571-027 Machined from Alloy						
			22 plate.						
			Attached Quote and CNWRA Drawing 20-01402-571-027						
			Quality and Technical Requirements: Specimens machined as per CNWRA drawing 20-01402-571-027. Dimensional inspection per dimensions and tolerances identified in CNWRA Drawing 20-01402-571-027 is required. Specimens should be cut from plate using a wire EDM or other method that conserves material.						
			"Quality Affecting Purchase" Material Supplied by SWRI						

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

<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20, Q12</b></p> <p>c INSPECTION CRITERIA <b>PI To inspect per QAP-016.</b></p> <p>d QA APPROVAL (IF REQUIRED) <input checked="" type="checkbox"/> DATE <b>3/3/03</b></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT / DIVISION APPROVAL: <b>Vijay Jain</b> DATE <b>3/3/03</b></p> <p>ADMIN. APPROVAL: _____ DATE _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
--------------------------	------	-----------------	------	----------------------------------

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

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

Crevice Repassivation Specimen

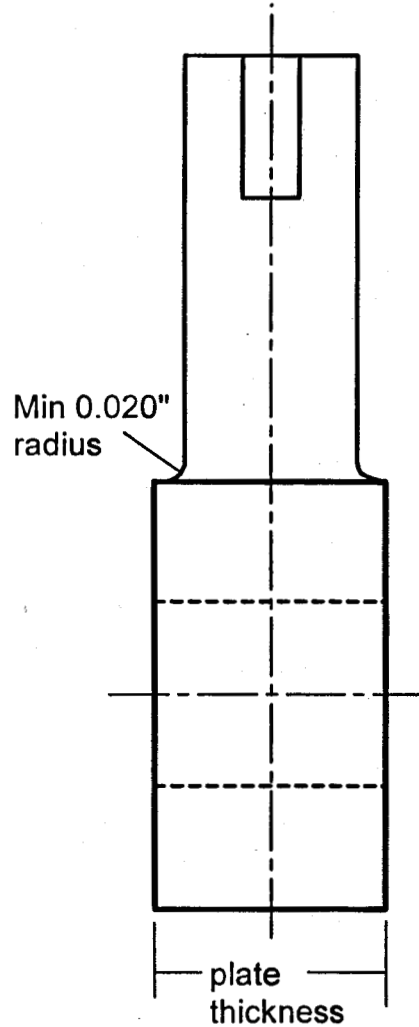
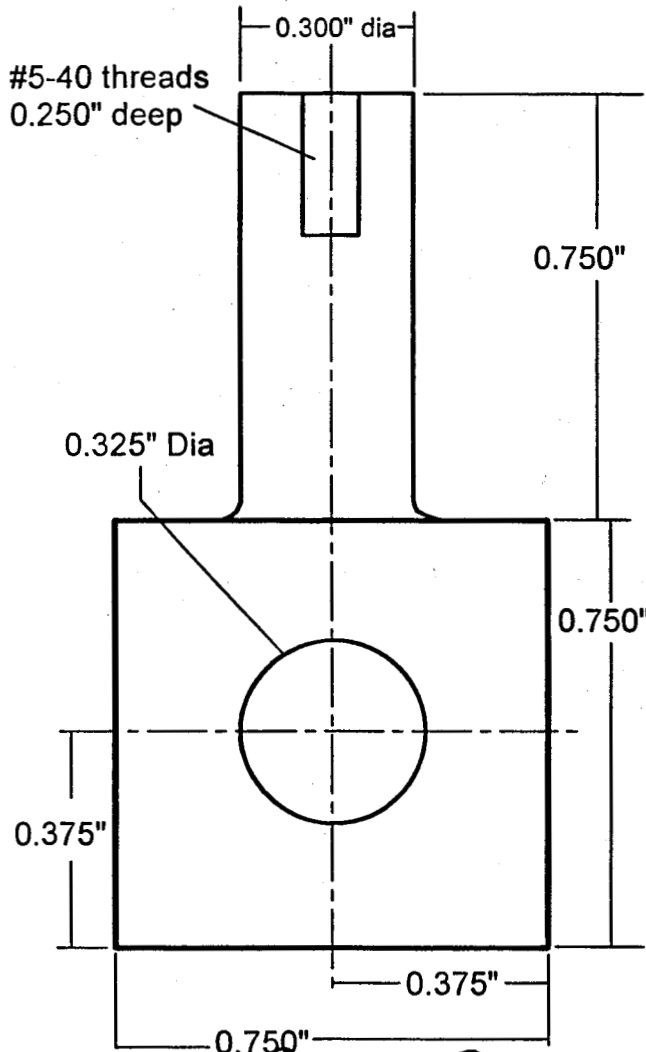
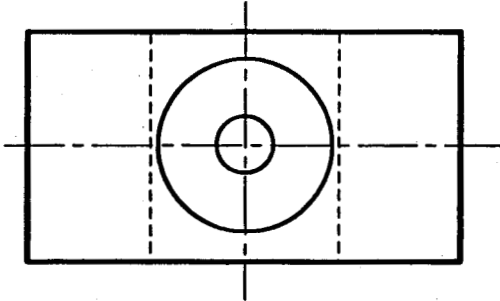
To: completed at time of order:

Material: Alloy C-22

Heat: 2277-8-3175

Specimen Orientation: —

Other: —



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

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra 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

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
0 4/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	

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

SOUTHWEST RESEARCH INSTITUTE  
 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

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
0 4/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK			
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.  Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510  _____ Authorized Signatures						PO Total Amt:	\$1,452.00



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE

DEPARTMENT

REQUISITION DATE	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>624882</b>
DELIVER TO		PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>11411 Coker Loop</b>		SHIP VIA	
ATTN: <b>Mike Ridgway</b>		F.O.B.	SUPPLIER CODE
PHONE <b>210 494-3651</b>	FAX <b>210 494-6139</b>	TERMS	PHONE
			FAX

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

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

<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q A CODES: <b>Q-11</b></p> <p>c INSPECTION CRITERIA</p> <p><i>P.I. To inspect per CRP-016</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE</p> <p><i>[Signature]</i> 2/13/03</p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell S. Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL: <b>Vijay Jain</b> DATE <b>2/13/03</b></p> <p>ADMIN. APPROVAL: _____ DATE _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
---	--	---	---

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

FORM P-1 (06/01)

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

J-bend specimen  
CNWRA 20.06002.01.081.003  
All Dimensions  $\pm 0.010$ "  
unless otherwise specified

Page 1 of 2

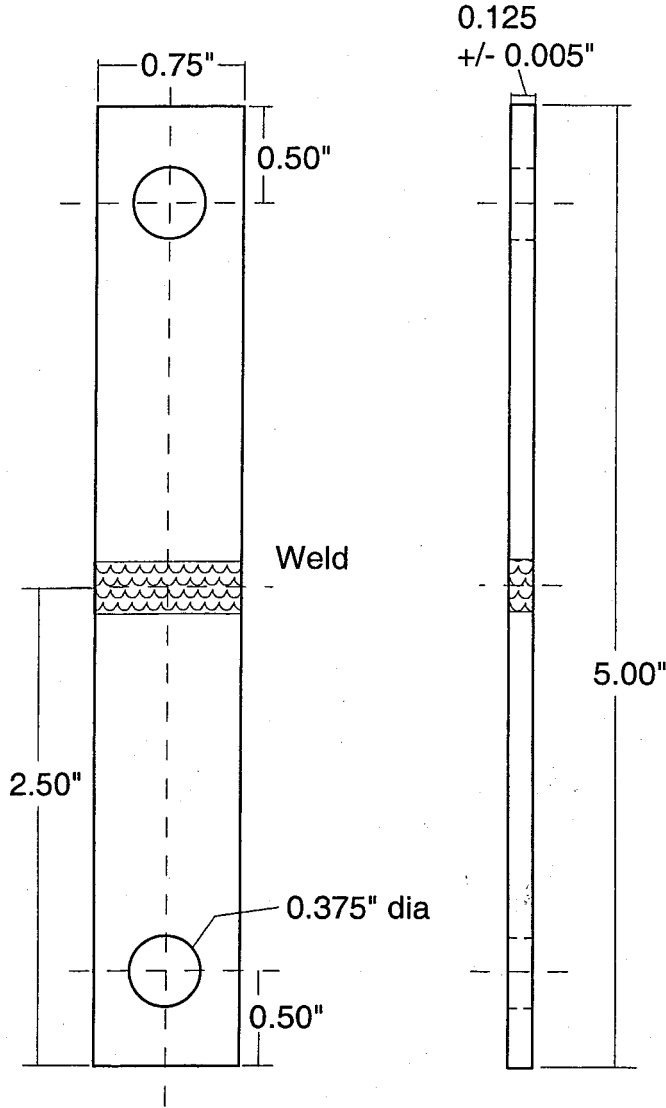
Time completed at time of order:

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

Heat: 059902LL2 & XX2048BG

Specimen Orientation: As shown

Other: Framatome D62X plate



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

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

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

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

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

Page 2 of 2

Time completed at time of order:

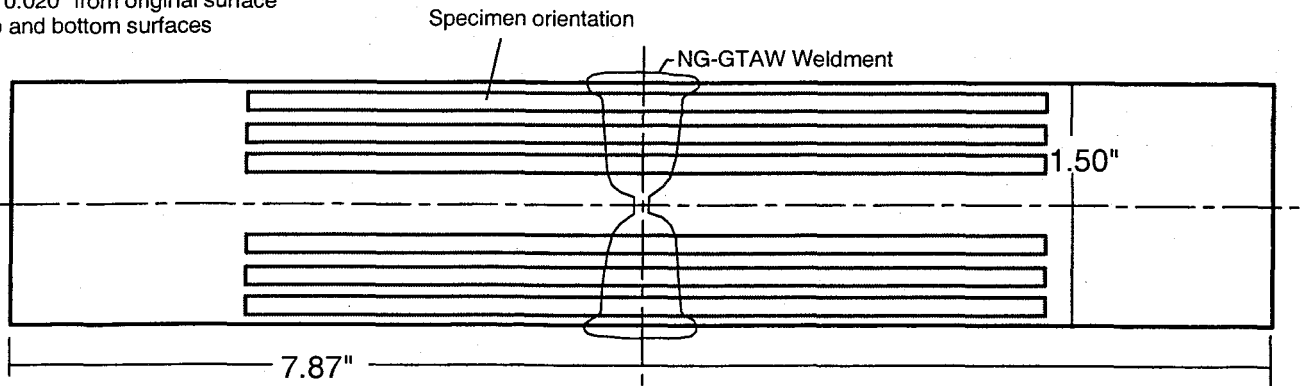
Material: Welded Alloy 22 NG-GTAW  
(58Ni-22Cr-13.5Mo-3W-3Fe)


Heat: 059902LL2 & XX2048BG


Specimen Orientation: As shown

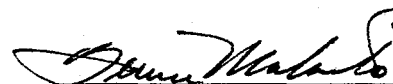
Other: Framatome D62X plate

Mill 0.020" from original surface  
Top and bottom surfaces



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

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

  
QA Approval B. Mabrito      2/12/2003  
Date

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

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

Page 1

**CUSTOMER QUOTE/WORK ORDER**

Quote Number: 095

Quoted By: MIRDGWAY

Customer: 1111

Quote Date: 12/02/2003 2-12-03

SOUTHWEST RESEARCH INSTITUTE

Quote Good Until: 12/02/2003 5-12-03

6220 CULBERTA ROAD

Terms: 0.5% / 10 days, Net 30

SAN ANTONIO, TX 78228

Quoted Leadtime in days: 1 WK AEO

Contact: DARRELL DUNN

Assigned Job #:

Cust Phone: 210-684-6111

Cust Fax: 522-5184

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

For Instructions:

Quality Requirements:  None  As Noted Below

Material/Process Certification:  Yes  No

Certificate of Compliance:  Yes  No

Source Inspector:  Yes  No

Documented Dimensional Inspection:  Yes  No

R YES:  If  Specified Dimensions Only  Sampling  100%

Authorized TTI Representative: *Mike Ridgway*

Date: 2-12-03

Customer Acceptance: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Customer Comments: \_\_\_\_\_

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

TTI Form 080101 Rev. 2



SOUTHWEST RESEARCH INSTITUTE  
 6220 Culebra Road  
 San Antonio, 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

Contact: MIKE RIDGEWAY

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

SOUTHWEST RESEARCH INSTITUTE

6220 Culebra Road  
 San Antonio, TX 78238-5166

Purchase Order: 383165S

Page: 2  
 Date Printed: 02/27/2003

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

100987

Contact: MIKE RIDGEWAY

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

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

Purchase Order: 383165S

Page: 3  
 Date Printed: 02/27/2003

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

100987

Contact: MIKE RIDGEWAY

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>2/25/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637659</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Texas Toolmakers</b>	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN: <b>Mike Ridgway</b>	F.O.B.	SUPPLIER CODE	ATTN:
PHONE <b>210/49403651</b>	FAX <b>210/494-6139</b>	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER <b>Call D. Dunn with P.O. #</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
--	----------------------------------	-------

<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q11, Q20</b></p> <p>c INSPECTION CRITERIA <i>P.I. to inspect per QAP-016</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>Mark R. Johnston 2/25/03</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>D. Dunn</b></p> <p>EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL <i>[Signature]</i></p> <p>DATE <b>2/25/03</b></p> <p>ADMIN. APPROVAL <i>[Signature]</i></p> <p>DATE</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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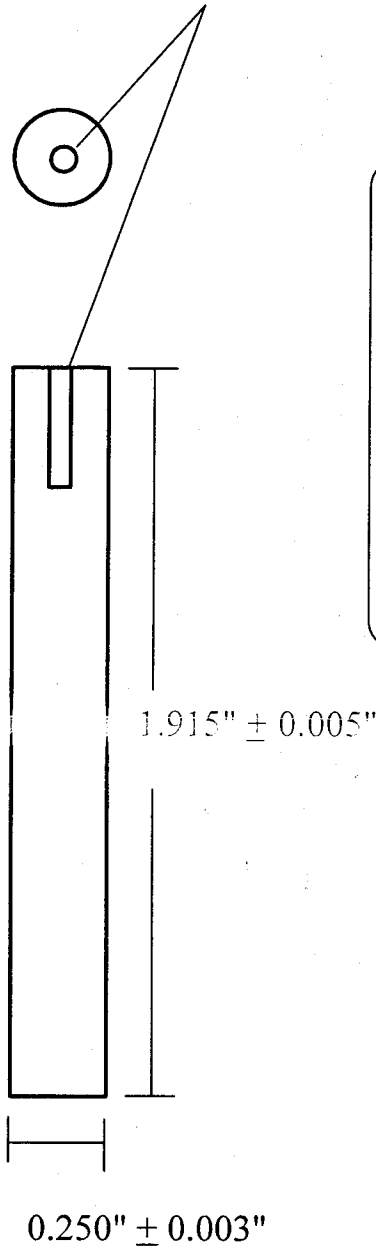
CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
--------------------------	------	-----------------	------	----------------------------------

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

## Cylindrical Test Specimen

CNWRA Drawing 20.01402.571.019

#5-40 thread centered minimum 0.250" deep



*This information is to be completed at time of fabrication.*

Material: ALLOY 22

Heat #: 059902LL2 # XX2048DG

Specimen  
Orientation: AS SHOWN IN

CNWRA 20.06002.01.081.004

Other: \_\_\_\_\_

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

Mark R. Shusterman 10/15/01  
QA Approval B. Mabrito Date

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

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

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

Page 1

**FAXED**  
 FEB 12 2003

**CUSTOMER QUOTE WORK ORDER**

**FAXED**  
 FEB 24 2003

**FAXED**  
 FEB 24 2003

Quote Number: Q98

Quoted By:

MIRIDGWAY

Customer: 1111  
 SOUTHWEST RESEARCH INSTITUTE  
 6220 CULEBRA ROAD  
 SAN ANTONIO, TX 78228  
 Contact: DARRELL DUNN  
 Cust. Phone: 210-684-5111  
 Cust. Fax: 522-5184

Quote Date:

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

Quote Good Until:

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

Terms:

0.5%/10 days, Net 30

FOB:

TTI TRUCK

Quoted Leadtime in days:

2-WKS ARD

Assigned Job #:

[Empty Box]

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

Work Instructions:

Quality Requirements:  None  As Noted Below  
 Material / Process Certification:  Yes  No  
 Certificate of Compliance:  Yes  No  
 Source Inspection:  Yes  No  
 Documented Dimensional Inspection:  Yes  No  
 If YES: 1)  Specified Dimensions Only 2)  Sampling 3)  100%

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

Customer Acceptance: Title: Date:

Customer Comments:

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

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
 P.O. Number: \_\_\_\_\_

TTI Form QF-050101

Rev. 2

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

Location of Cylindrical Test Specimens  
CNWRA Drawing 20.06002.01.081.004

Cylindrical Test Specimen Dimensions  
CNWRA 20.01402.571.019

Page 1 of 1

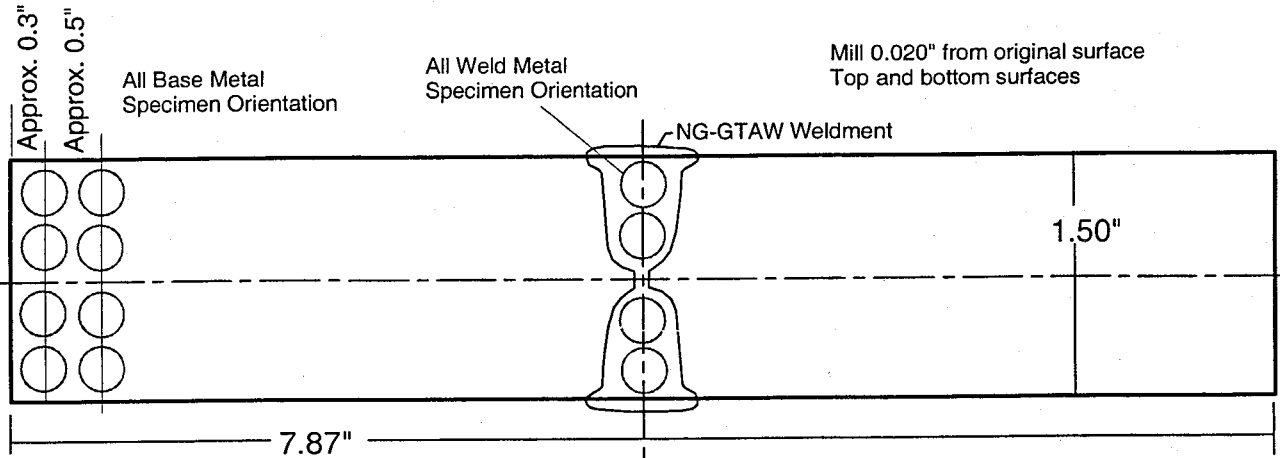
To be completed at time of order:

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

Heat: 059902LL2 & XX2048BG

Specimen Orientation: As shown

Other: Framatome D62X plate



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

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

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

**SOUTHWEST RESEARCH INSTITUTE**

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

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
03/12/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57

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



**SOUTHWEST RESEARCH INSTITUTE**

6220. Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 3832605**

Page: 2  
Date Printed: 03/12/2003

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

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
03/1/03	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D DUNN B57

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>3/10/03</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637663</b>
DELIVER TO <b>D. Dunn/bldg. 57</b>		PURCHASING SELECTED SUPPLIER	
SHIP VIA		ATTN	
F.O.B.		SUPPLIER CODE	ATTN
TERMS		PHONE	FAX

SUGGESTED OR PREVIOUS SUPPLIER  
**Texas Toolmakers**

CITY, STATE

ATTN:  
**Mike Ridgway**

PHONE  
**494-3651**

FAX  
**494-6139**

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

INTERNAL NOTES TO BUYER  
**Call D. Dunn at x6090 with P.O. number**

SPECIAL INSTRUCTIONS TO SUPPLIER

**TOTAL**

1. Government Project?  YES  NO

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

a  G-1 CONSUMABLE

b  G-2 DELIVERABLE

c  G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?  
 YES  NO

2. QUALITY ASSURANCE?  YES  NO

a ASL REQUIRED?  YES  NO

b Q A CODES: **Q20**

c INSPECTION CRITERIA  
*P.I. To inspect per QAP-016*

d QA APPROVAL (IF REQUIRED) DATE  
*[Signature]* **3/10/03**

3. SOURCING NOTES

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

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

REQUESTOR'S SIGNATURE **Darrell Dunn** EXT. NO. **6090**

DEPT. / DIVISION APPROVAL *[Signature]* DATE **3/10/03**

ADMIN. APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?  YES  NO

b IS THE REPAIR ON OR OFF CAMPUS?  ON  OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET NO. \_\_\_\_\_

CONTRACT REVIEW APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

BUYER SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SEE INSTRUCTIONS ON REVERSE SIDE

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

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

Page 1

### CUSTOMER QUOTE/WORK ORDER

Quote Number: Q143

Quoted By: MRIDGWAY

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

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

Assigned Job #:

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

**Work Instructions:**

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

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

**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

LN NO	ORD QTY	REC QTY	ACC QTY	REC DATE	SHIP VIA	TOT AMT	DESCRIPTION
1	10	10	10	12/31/2002	UPS	\$214.90	3/32" DIA X 36" LONG BARE ELECTRODES ER NiCrMo-10 FILLER
2	30	30	30	12/31/2002	UPS	\$647.10	0.045" DIA SPOOL WELDING ER NiCrMo-10 FILLER METAL

**Total \$862.00**

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

**FOOTNOTES: P8 P12 Q4**



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>12/18/02</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637640</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Welders Supply</b>	DELIVER TO <b>Darrell Dunn/bldg. 587</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN:	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>684-0232</b>	FAX	TERMS	PHONE FAX

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

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q.A CODES: <b>Q4</b></p> <p>c INSPECTION CRITERIA</p> <p>d QA APPROVAL (IF REQUIRED) DATE</p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL: <i>[Signature]</i> DATE <b>12/18/02</b></p> <p>ADMIN. APPROVAL DATE</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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No requisition is available for the record you have requested.  
637636

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**Purchase Order #** 375301P

**Vendor:** IHI SOUTHWEST  
TECHNOLOGIES, INC.

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

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

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	<u>DESCRIPTION</u>
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	
1	2	0	0		N/A	\$880.00	SERVICE PURCHASE ORDER

**Total \$880.00**

**NOTES:** (none)

**FOOTNOTES:** P8 P9 P10 P90 Q20 Q12 P12



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>12/11/02</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. ✓ <b>637636</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>IHI Southwest</b>	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE	SHIP VIA		
ATTN: <b>Fred Anderson</b>	FO.B.	SUPPLIER CODE	ATTN
PHONE <b>256-4108</b>	FAX <b>521-2311</b>	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
<b>A</b>	<b>2</b>	<b>EA</b>	<b>Radiographic inspection of Alloy 22</b>						
			<b>weld</b>	<b>20</b>	<b>06002.</b>	<b>01.081</b>	<b>100</b>	<b>12/17/02</b>	<b>440.00</b>
<p><b>Quality &amp; Technical Requirements: Quality affecting item. Test procedures must be compliant with ASME code. NDE certifications required for individuals performing and reviewing radiographic inspection.</b></p>									

INTERNAL NOTES TO BUYER <b>PLEASE RUSH!!!!</b>	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input checked="" type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q20, Q12</b></p> <p>c INSPECTION CRITERIA</p> <p><i>P.I. TO INSPECT PER QAP-016</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE</p> <p><i>[Signature]</i> <b>12/11/02</b></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL DATE: <b>12/11/02</b></p> <p>ADMIN. APPROVAL DATE</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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No requisition is available for the record you have requested.  
637634

**Purchase Order #** 370215N

**Vendor:** IHI SOUTHWEST  
TECHNOLOGIES, INC.

**Order Date:** 12/03/02

**Due Date:** 12/03/02

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	<u>DESCRIPTION</u>
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	
1	1	0	0		YOUR TRUCK	\$200.00	SERVICE PURCHASE ORDER
						<b>Total</b>	<b>\$200.00</b>

**NOTES:** (none)

**FOOTNOTES:** P8 P9 P10 P90 Q20 Q12





PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>12/2/02</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>637634</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>THI Southwest</b>	CITY, STATE	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
ATTN: <b>Fred Anderson</b>	PHONE <b>256-4108</b>	FAX <b>521-2311</b>	F.O.B.	SUPPLIER CODE
TERMS		PHONE	FAX	

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

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

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

a  G-1 CONSUMABLE

b  G-2 DELIVERABLE

c  G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

YES

NO

2. QUALITY ASSURANCE?  YES  NO

a ASL REQUIRED?  YES  NO

b QA CODES: **Q20, Q12**

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED) DATE

*[Signature]* 12/2/02

3. SOURCING NOTES

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

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

REQUESTOR'S SIGNATURE: **Darrell Dunn** EXT. NO. **6090**

DEPT. / DIVISION APPROVAL: *[Signature]* DATE: **12/2/2002**

ADMIN. APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?  YES  NO

b IS THE REPAIR ON OR OFF CAMPUS?  ON  OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. \_\_\_\_\_

CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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SOUTHWEST RESEARCH INSTITUTE™

REQUISITION DATE

12/2/02

ORDER DATE

PURCHASE ORDER NUMBER

REQ NO.

637634

SUGGESTED OR PREVIOUS SUPPLIER

IHI Southwest

DELIVER TO

D. Dunn/bldg. 57

PURCHASING SELECTED SUPPLIER

CITY, STATE

SHIP VIA

ATTN:

Fred Anderson

F.O.B.

SUPPLIER CODE

ATTN

PHONE

256-4108

FAX

521-2311

TERMS

PHONE

FAX

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

INTERNAL NOTES TO BUYER

SPECIAL INSTRUCTIONS TO SUPPLIER

TOTAL

1. Government Project?  YES  NO

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

- a  G-1 CONSUMABLE
- b  G-2 DELIVERABLE
- c  G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

- YES
- NO

2. QUALITY ASSURANCE?  YES  NO

a ASL REQUIRED  YES  NO

b QA CODES: Q20, Q12

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED) DATE

*[Signature]* 12/2/02

3. SOURCING NOTES

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

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

REQUESTOR'S SIGNATURE

EXT. NO.

*Darrell Dunn*

6090

DEPT. / DIVISION APPROVAL

DATE

*[Signature]*

12/2/2002

ADMIN. APPROVAL

DATE

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?

YES  NO

b IS THE REPAIR ON OR OFF CAMPUS?

ON  OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. \_\_\_\_\_

CONTRACT REVIEW APPROVAL

DATE

BUYER SIGNATURE

DATE

SEE INSTRUCTIONS ON REVERSE SIDE

**Darrell Dunn**

---

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

Darrel

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

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

Let me know your schedule.

Regards

Fred

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

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

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**Purchase Order #** 370212N

**Vendor:** AN-TECH LABORATORIES

**Order Date:** 11/22/02

**Due Date:** 11/22/02

<u>LN</u>	<u>ORD</u>	<u>REC</u>	<u>ACC</u>	<u>REC</u>	<u>SHIP</u>	<u>TOT</u>	
<u>NO</u>	<u>QTY</u>	<u>QTY</u>	<u>QTY</u>	<u>DATE</u>	<u>VIA</u>	<u>AMT</u>	<u>DESCRIPTION</u>
1	1	0	0		UPS	\$352.00	SERVICE PURCHASE ORDER
						<b>Total</b>	<b>\$352.00</b>

NOTES: (none)

FOOTNOTES: P8 P9 P10 P90 Q49 Q12 Q20 P12



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>11/19/02</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>624998</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>An-Tech Laboratories</b>	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>Houston, TX</b>	SHIP VIA		
ATTN: <b>Donald Derrick</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>713/664-7501</b>	FAX	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
			<b>NDE &amp; destructively test plate #751 for PQR C22-GTAW-GMAW per 1998 ASME Section IX as follows:</b>						
<b>A</b>	<b>1</b>	<b>EA</b>	<b>RT inspect</b>	<b>20</b>	<b>06002.01</b>	<b>.081</b>	<b>100</b>	<b>11/30/02</b>	<b>50.00</b>
<b>B</b>	<b>2</b>	<b>EA</b>	<b>Machining reduced section tensile specimens</b>	<b>20</b>	<b>06002.01</b>	<b>.081</b>	<b>100</b>	<b>11/30/02</b>	<b>60.00</b>
<b>C</b>	<b>4</b>	<b>EA</b>	<b>Machining side bend specimens</b>	<b>20</b>	<b>06002.01</b>	<b>.081</b>	<b>100</b>	<b>11/30/02</b>	<b>35.00</b>
<b>D</b>	<b>2</b>	<b>EA</b>	<b>Test tensile specimens yield by Extensometer</b>	<b>20</b>	<b>06002.01</b>	<b>.081</b>	<b>100</b>	<b>11/30/02</b>	<b>22.00</b>
<b>E</b>	<b>4</b>	<b>EA</b>	<b>Test side bend specimens</b>	<b>20</b>	<b>06002.01</b>	<b>.081</b>	<b>100</b>	<b>11/30/02</b>	<b>12.00</b>
			<b>Quality affecting purchase.</b>						

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input checked="" type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q A CODES: <b>Q49, Q12, Q20</b></p> <p>c INSPECTION CRITERIA</p> <p><b>PI to inspect per QAP-016</b></p> <p>d QA APPROVAL (IF REQUIRED) DATE</p> <p><i>Dunn Malato</i> 11/20/02</p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL <i>Jacques</i> DATE <b>11/19/02</b></p> <p>ADMN. APPROVAL <i>Jacques</i> DATE</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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PURCH 1 (08/01)

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

100987

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

Contact: MIKE RIDGEWAY

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

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
 San Antonio, TX 78238-5166

**Purchase Order: 382830S**

Page: 2  
 Date Printed: 12/20/2002

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

100987

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
12/20/02	Jimmie Silvers	.5% 10	SHIPPING POINT		OUR TRUCK	D.DUNN/B57

LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	SUPPLIER SHALL FURNISH DIMENSIONAL INSPECTION DATA VERIFYING COMPLIANCE WITH THE REQUIREMENTS OF THE FABRICATION DRAWINGS.  Bill To: SOUTHWEST RESEARCH INSTITUTE P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510  <hr/> Authorized Signatures							
							PO Total Amt:	\$1,157.50



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE 12/16/02	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. 637639
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SUGGESTED OR PREVIOUS SUPPLIER <b>Texas Toolmakers</b>	CITY, STATE	DELIVER TO <b>D. Dunn/bldg. 57</b>	SHIP VIA	PURCHASING SELECTED SUPPLIER
ATTN: <b>Mike Ridgway</b>	PHONE <b>494-3551</b>	FAX <b>494-6139</b>	FO.B.	SUPPLIER CODE
			TERMS	PHONE
				FAX

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

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	TOTAL
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b QA CODES: <b>Q11</b></p> <p>c INSPECTION CRITERIA <i>P.I. to inspect per QAP-016</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>Michael R. Johnston 12/18/02</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE: <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT / DIVISION APPROVAL: <i>13 12/16/02</i> DATE: <b>12/16/02</b></p> <p>ADMIN. APPROVAL: <i>[Signature]</i> DATE:</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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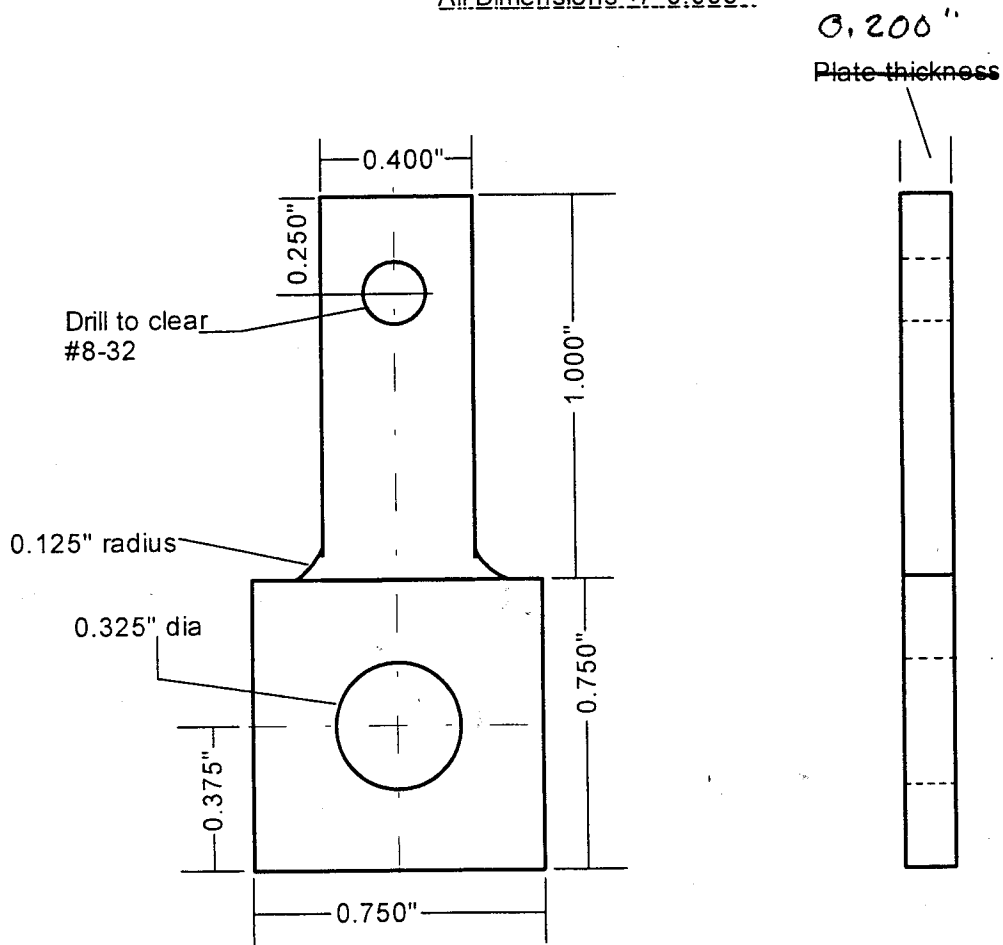
CONTRACT REVIEW APPROVAL	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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Darrell S. Dunn  
SwRI-CNWRA  
Phone: (210) 522-6090  
Fax: (210) 522-5184  
e-mail: ddunn@swri.org

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

Thin Crevice Repassivation Specimen  
All Dimensions +/- 0.005"



*Darrell Dunn* 6/22/2001  
Initiator: D. Dunn Date

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

*N. Sridhar* 6/23/01  
Reviewer: N. Sridhar Date

**Texas Toolmakers, Inc.**

11411 E. Coker Loop / San Antonio, TX 78216

Phone: (210) 494-3651

Fax: (210) 494-6139

**CUSTOMER WORK ORDER / QUOTE**

Job No.:	Quote No.:	Date Opened:	Delivery Date:	Customer No.:	Job Taken/Quoted by:		
	2101			01111	MIKE RIDGWAY		
Customer:				Quote Good For:	Terms:		
SOUTHWEST RESEARCH INSTITUTE				90 DAYS	½% 10 NET 30		
6220 CULEBRA				Customer P.O.:	Contact:		
SAN ANTONIO, TX 78238				Phone No.:	Fax No.:		
				210 522-6090	522-5184		
Item	Qty	Part No.	Rev	Part Name	Bid T&M	Price Ea.	Total
1	10	20-01402-571-006	1	CREVICE REPASSIVATION		140.75	\$1,407.50
				SPECIUM,			\$ 0.00
2	10	20-04238-01-002-001	1	CREVICE REPASSIVATION		115.75	\$1,157.50
				SPECIUM			\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
<b>Work Instructions:</b>						<b>Total</b>	<b>\$2,565.00</b>

FOB: TEXAS TOOLMAKERS, INC.

Page/Sheet \_\_\_\_ of \_\_\_\_

Quality Requirements:  None  As noted below SWRI

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

Documented Dimensional Inspection:  Yes  No; If Yes: 1)  Specified Dimensions Only, 2)  Sampling, OR 3)  100%

Authorized TTI Representative: Mike Ridgway Date: 12/5/02

Customer Acceptance: Title: Date:

Customer Comments (if applicable):

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

Reviewed by: Date: P.O. provided at time of review:  Yes  No

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 399682L**

Page: 1  
Date Printed: 11/11/2002

Order To: MINERAL OPTICS LABORATORY  
126378  
29 A STREET  
WILDER, VT 05088

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

Contact: Marco 802 295-9373

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
11/02	Jerome Smith	NET 30	SHIPPING POINT		UPS	E.PEARCY/B189/2ND FLOOR		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC STANDARD POLISHED THIN SECTIONS (MADE FROM JOSEPHINITE SAMPLE SUPPLIED)		EA	11/18/02	11/18/02	2.0000	40.0000	\$80.00
Req: 600594  Prime Contract #: NRC0202012      Priority: NONE AOP: 704-000 1.20      06002.01.081  ACCEPTANCE BASED ON INSPECTION BY SPTICAL MICROSCOPY BY PI UPON RECEIPT, IN ACCORDANCE WITH QAP-016.  THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.  AGREED & ACCEPTED: _____  DATE: _____  "IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."								

**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 399682L**

Page: 2  
Date Printed: 11/11/2002

Order To: MINERAL OPTICS LABORATORY 126378  
29 A STREET  
WILDER, VT 05088

Contact: Marco 802 295-9373

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

DEPARTMENT

REQUISITION DATE <b>11/5/02</b>	ORDER DATE	PURCHASE ORDER NUMBER	REQ. NO. <b>600594</b>
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SUGGESTED OR PREVIOUS SUPPLIER <b>Mineral Optics Laboratory</b>	DELIVER TO	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>29 "A":Street</b>	SHIP VIA		
ATTN: <b>P.O. Box 828</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>Wilder, Vermont 05088</b> <b>802 295-0373</b>	TERMS	PHONE	FAX

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

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER <b>Deliver to: E. Percy Bldg. 189 2nd Fl</b>	TOTAL
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1. Government Project?  YES  NO

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

a  G-1 CONSUMABLE

b  G-2 DELIVERABLE

c  G-3 ACCOUNTABLE / REPORTABLE

d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?

YES

NO

2. QUALITY ASSURANCE?  YES  NO

a ASL REQUIRED?  YES  NO

b Q A CODES:

c INSPECTION CRITERIA

d QA APPROVAL (IF REQUIRED)

3. SOURCING NOTES

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

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

REQUESTOR'S SIGNATURE  
**English Percy**

EXT. NO.  
**5540**

DEPT. / DIVISION APPROVAL  
**Gustavo Craguolino/Vijay Jain**

DATE  
**11/8/02**

ADMIN APPROVAL

DATE

4. REPAIRS

a IS THIS REQ. FOR A REPAIR?  
 YES  NO

b IS THE REPAIR ON OR OFF CAMPUS?  
 ON  OFF

c IF OFF CAMPUS PROVIDE SHIPPING TICKET

NO. \_\_\_\_\_

CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	SEE INSTRUCTIONS ON REVERSE SIDE
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**SOUTHWEST RESEARCH INSTITUTE**

6220 Culebra Road  
San Antonio, TX 78238-5166

**Purchase Order: 382425S**

Page: 1  
Date Printed: 10/18/2002

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

100987

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

Contact: MIKE RIDGEWAY

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
10/18/02	Jimmie Silvers	.5% 10	DEST		YOUR TRUCK	D.DUNN/B57		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the Contractor shall follow all requirements of the Defense Priorities Allocations System Regulation (15 CFR Part 700).								
1	MISC C-22 WELD SPECIMENS CNWRA DRAWING 20-06002-01-081-001 Req: 624983		EA	11/01/02	11/01/02	4.0000	1,150.0000	\$4,600.00
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
2	MISC QUALITY AND TECHNICAL REQUIREMENTS: SPECIMENS MACHINED AS PER CNWRA DRAWING 20-06002-01-081. DIMENSIONAL INSPECTION PER DIMENSIONS AND TOLERANCES IDENTIFIED IN CNWRA DRAWING 20-06002-01-081-001 IS REQUIRED. SPECIMENS CUT FROM ALLOY 22 PLATE PER 20-06002-01-081-002. ATTACHED DRAWINGS AND QUOTES. Req: 624983		EA	11/01/02	11/01/02	1.0000	0.0000	\$0.00
	Prime Contract #: NRC0202012 AOP: 704-000 1.20			Priority: NONE 06002.01.081				
	PI TO VERIFY INSPECTION							
	THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN FIVE (5) WORKING DAYS.							
	AGREED & ACCEPTED: _____							

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

100987

Contact: MIKE RIDGEWAY

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

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



PURCHASE REQUISITION

SOUTHWEST RESEARCH INSTITUTE™

*(Jim Silvers)*

DEPARTMENT

REQUISITION DATE 10/11/02	ORDER DATE	PURCHASE ORDER NUMBER 3824255	REQ. NO. 624983
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SUGGESTED OR PREVIOUS SUPPLIER <b>Texas Toolmakers</b>	DELIVER TO <b>D. Dunn/bldg. 57</b>	PURCHASING SELECTED SUPPLIER	
CITY, STATE <b>San Antonio, TX</b>	SHIP VIA		
ATTN: <b>Mike Ridgway</b>	F.O.B.	SUPPLIER CODE	ATTN
PHONE <b>210/494-3651</b>	FAX <b>210/494-6139</b>	TERMS	PHONE FAX

LN.	QTY.	UNIT	DESCRIPTION	ORG	PROJECT	ACCT	%	DATE REQUIRED	EST. UNIT PRICE
A	4	EA	C-22 weld specimens CNWRA drawing						
			20-06002-01-081-001	20	06002.01	.081	100	11/1/02	1150.00
			<b>Quality &amp; 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.</b>						

INTERNAL NOTES TO BUYER	SPECIAL INSTRUCTIONS TO SUPPLIER	<b>TOTAL</b>
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<p>1. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, CHECK THE APPROPRIATE PROPERTY TYPE (SEE BACK FOR EXPLANATION OF PROPERTY TYPES)</p> <p>a <input checked="" type="checkbox"/> G-1 CONSUMABLE</p> <p>b <input type="checkbox"/> G-2 DELIVERABLE</p> <p>c <input type="checkbox"/> G-3 ACCOUNTABLE / REPORTABLE</p> <p>d IS GOVT. PROPERTY BEING SENT TO SUPPLIER?</p> <p><input checked="" type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p>	<p>2. QUALITY ASSURANCE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>a ASL REQUIRED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b Q.A. CODES: <b>Q11</b></p> <p>c INSPECTION CRITERIA <i>PI To verify inspection.</i></p> <p>d QA APPROVAL (IF REQUIRED) DATE <i>Samuel Malato 10/14/02</i></p>	<p>3. SOURCING NOTES</p> <p>IF YOU HAVE SELECTED A BRAND NAME OR PARTICULAR MANUFACTURER, WOULD AN EQUIVALENT BRAND OR PRODUCT ALSO SATISFY YOUR NEED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YOU HAVE SUGGESTED A SUPPLIER, AND NO OTHER SUPPLIER WILL MEET YOUR NEEDS, PLEASE ATTACH A MEMO OF EXPLANATION.</p> <p>REQUESTOR'S SIGNATURE <b>Darrell Dunn</b> EXT. NO. <b>6090</b></p> <p>DEPT. / DIVISION APPROVAL <i>[Signature]</i> DATE <b>10/11/02</b></p> <p>ADMIN. APPROVAL _____ DATE _____</p>	<p>4. REPAIRS</p> <p>a IS THIS REQ. FOR A REPAIR? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>b IS THE REPAIR ON OR OFF CAMPUS? <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>c IF OFF CAMPUS PROVIDE SHIPPING TICKET</p> <p>NO. _____</p>
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CONTRACT REVIEW APPROVAL	DATE	BUYER SIGNATURE	DATE	<b>SEE INSTRUCTIONS ON REVERSE SIDE</b>
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PU-001 (05/01)



*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

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

1. Is the recommended source the only source you considered?  
 Yes  No

a. If you check yes, why didn't you consider any other sources?  
Texas Toolmakers has been used because they are a machine shop on the ASL and have provided services at a competitive price. Texas tool makers has successfully machined previous weld preparation specimens from Alloy 22 in a timely manner with minimal problems.

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

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

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

Why were these other sources ruled out for this purchase?

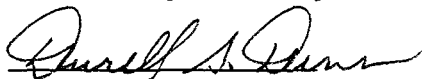
Herco was originally ruled out because of higher quoted cost estimates

2. What characteristics does this item/company have that are necessary, and that no other item/company has?  
Combination of being on the approved supplier list and proven success machining the same material.

3. Remarks:

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

Purchase Requisition Requester:



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

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

Page 1 of 2

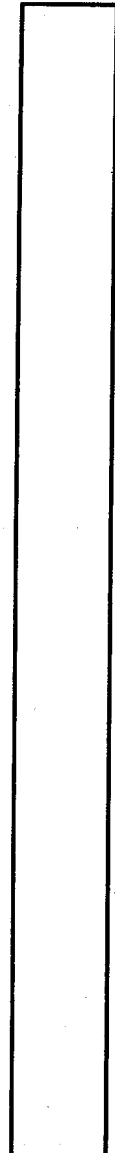
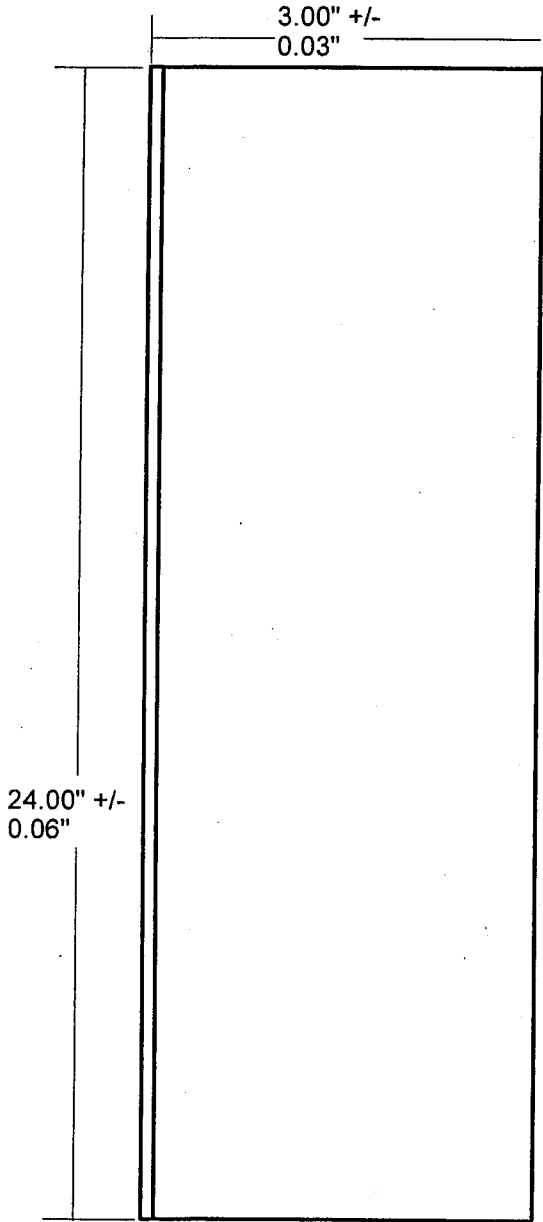
To be completed at time of order:

Material: \_\_\_\_\_

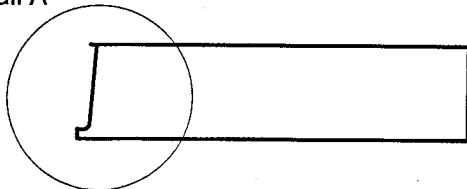
Heat: \_\_\_\_\_

Specimen Orientation: \_\_\_\_\_

Other: \_\_\_\_\_



Detail A



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

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

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

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

Alloy 2219 Weld Specimen  
CNWRA Drawing 20-06002-01-081-001  
All Dimensions  $\pm 0.005$ "  
unless otherwise specified  
Detail A identified on Page 1

Page 2 of 2

To be completed at time of order:

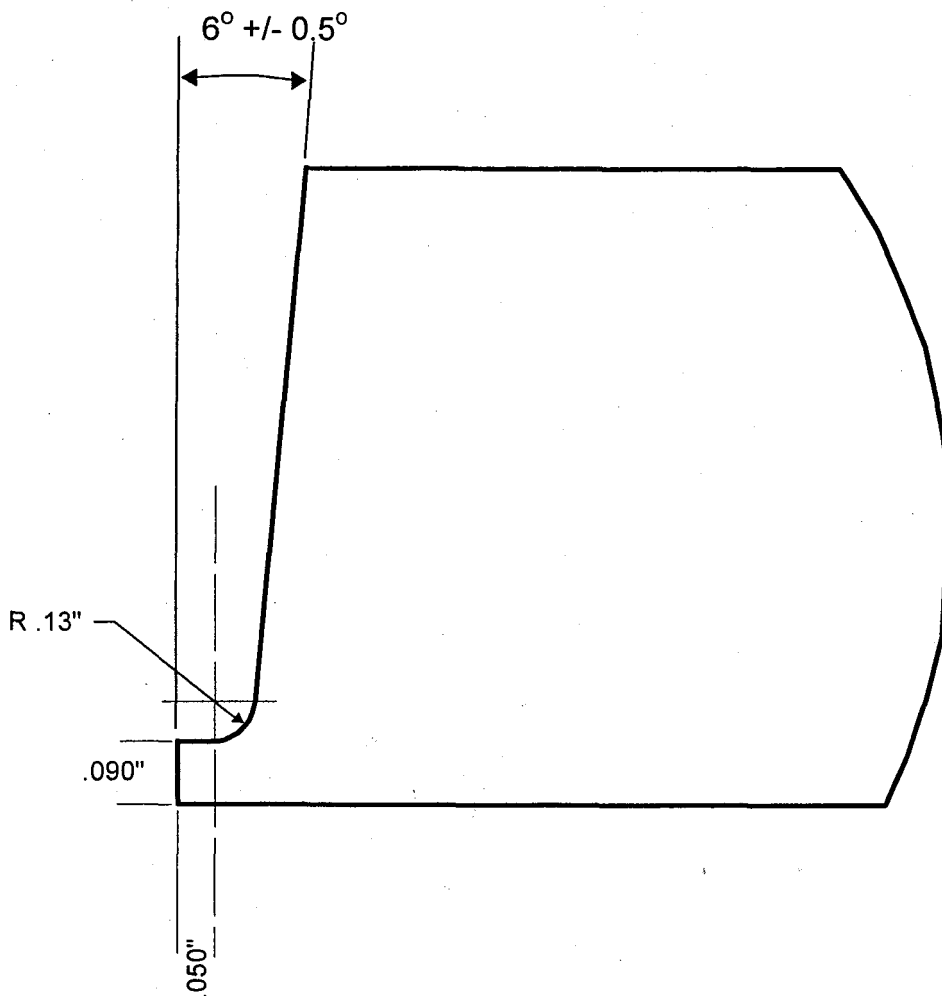
Material: \_\_\_\_\_

Heat: \_\_\_\_\_

Specimen Orientation: \_\_\_\_\_

Other: \_\_\_\_\_

Detail A



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

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

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

# Texas Toolmakers, Inc.

11411 E. Coker Loop / San Antonio, TX 78216

Phone: (210) 494-3651

Fax: (210) 494-6139

## CUSTOMER WORK ORDER / QUOTE

Job No.:	Quote No.:	Date Opened:	Delivery Date:	Customer No.:	Job Taken/Quoted by:		
	1964		2-3 WEEKS ARO	01111	MIKE RIDGWAY		
Customer:			Quote Good For:	Terms:			
SOUTHWEST RESEARCH INSTITUTE			90 DAYS	½% 10 NET 30			
6220 CULEBRA			Customer P.O.:	Contact:			
SAN ANTONIO, TX 78238			Phone No.:	Fax No.:			
			210-522-6090	210-522-5184			
Item	Qty	Part No.	Rev	Part Name	Bld T&M	Price Ea.	Total
1	4	20-06002-01-081-001 ALLOY		22 WELD SPECIMEN		1150.00	\$4,600.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
							\$ 0.00
Work Instructions:						<b>Total</b>	\$4,600.00

FOB: TEXAS TOOLMAKERS, INC.

Page/Sheet \_\_\_\_ of \_\_\_\_

Quality Requirements:  None  As noted below

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

Documented Dimensional Inspection:  Yes  No; If Yes: 1)  Specified Dimensions Only, 2)  Sampling, OR 3)  100%

Authorized TTI Representative: *Mike Ridgway* Date: 10/8/02

Customer Acceptance: Title: Date:

Customer Comments (if applicable):

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

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_ P.O. provided at time of review:  Yes  No