



816-474-7393

P.O. BOX 15512 1012 EAST 10TH STREET KANSAS CITY, MO 64106

INSPECTION SERVICE

April 10, 1989

United States Nuclear
Regulatory Commission
Region III
799 Roosevelt Rd.
Glen Ellyn, Il., 60137

RECEIVED
89 APR 19 10:37

SUBJECT: License #24-24826-01

ATTEN: Sandy Frazier/Licensing Reviewer:

We are submitting James A. Hosack's qualifications for approval to be our company's Radiation Safety Officer (RSO) and Radiographer. We feel that the company should have in addition to James A. Hosack, John A. Brunk, whom will be on our company staff, also to be approved as an alternate Radiation Safety Officer (RSO). This will assure us that the company will have adequate and qualified personnel coverage at all times.

It is important that we meet with your approval as soon as possible.

Sincerely,

Forrest Roudebush,
President, P.S.I. Inspection.

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Check No.	5374
Amount	38 \$230
Fee Category	anal
Type of	
Date Checked	4/13/89
Date Completed	
By:	

FLR/cr
Enclosures (2)

RECEIVED

APR 11 1989

APR 11 1989

III PERSONNEL OFFICE

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REG3 LIC30
24-24826-01 PDR

CONTROL NO. 8723 5

JOHN A. BRUNK
EXPERIENCE AND EDUCATION

CONSULTANT
OVERLAND PARK, KS

1980-PRESENT

PROVIDE NONDESTRUCTIVE TESTING ENGINEERING, TRAINING, LEVEL III, AND RELATED SERVICES FOR COMPANIES WITH PERIODIC REQUIREMENTS FOR SUCH SERVICES. NEGOTIATE WITH CLIENT'S CUSTOMERS, INSURANCE CARRIERS AND REGULATORY AGENCY REPRESENTATIVES TO CLARIFY REQUIREMENTS AND PROVE COMPLIANCE. PREPARE AND CONDUCT TRAINING PROGRAMS AND DEVELOP SPECIAL TESTING TECHNIQUES FOR UNUSUAL SITUATIONS. PREPARE WRITTEN PROCEDURES FOR PERSONNEL QUALIFICATION AND CERTIFICATION, AND FOR INSPECTION OPERATIONS.

ULTRAN LABORATORIES, INC.
STATE COLLEGE, PA
VICE-PRESIDENT

1986-87

DIRECTED A ONE-YEAR PROGRAM FUNDED BY THE COMMONWEALTH OF PENNSYLVANIA TO INVESTIGATE AND DEVELOP PRACTICAL APPLICATIONS FOR ADVANCED ULTRASONIC TRANSDUCER DESIGNS. DIRECTED PENN STATE GRADUATE STUDENTS IN DEVELOPING PRACTICAL EXPERIMENTS TO TEST THEORETICAL MODELS OF WAVE-MATERIAL INTERACTIONS.

ALLIED-SIGNAL CORPORATION
BENDIX KANSAS CITY DIVISION
KANSAS CITY, MO
STAFF ENGINEER

1968-86

RESPONSIBLE FOR DEVELOPING NEW NONDESTRUCTIVE TESTING TECHNIQUES FOR NEW PRODUCTS AND MATERIALS. DETERMINED DESIGN REQUIREMENTS AND PREPARED PURCHASE SPECIFICATIONS FOR TEST EQUIPMENT. TRAINED ENGINEERS AND INSPECTORS, FIELD REPRESENTATIVES, AND SUBCONTRACTOR PERSONNEL IN ULTRASONIC, EDDY CURRENT, RADIOGRAPHIC, MAGNETIC PARTICLE AND PENETRANT METHODS. ALSO UTILIZED ACOUSTIC EMISSION, NEUTRON RADIOGRAPHY, SONIC AND MICROWAVE TECHNIQUES.

HONEYWELL ORDNANCE DIVISION
HOPKINS, MN
METALLURGIST

1966-68

DIRECTED WORK OF TECHNICIANS IN THE METALLURGICAL LABORATORY, INCLUDING DESTRUCTIVE AND NONDESTRUCTIVE (EDDY CURRENT, BETA-BACKSCATTER, ELECTROMAGNETIC AND RADIOGRAPHIC) TESTING. PROVIDED TECHNICAL ASSISTANCE TO SUBCONTRACTORS AND SUPPLIERS.

CONTROL NO. 87235

US BUREAU OF MINES
MINNEAPOLIS, MN
METALLURGIST

1965-66

CARRIED OUT DEVELOPMENT PROJECTS IN COPPER REFINING AND IRON ORE PELLETIZING. DESIGNED AND DIRECTED THE CONSTRUCTION OF A PILOT-PLANT FLUIDIZED BED REACTOR FOR ROASTING COPPER CONCENTRATES.

US NAVAL SHIPYARD
PEARL HARBOR, HA
METALLURGIST

1962-65

PERFORMED DESTRUCTIVE AND NONDESTRUCTIVE (RADIOGRAPHIC, ULTRASONIC, EDDY CURRENT, MAGNETIC PARTICLE, PENETRANT) TESTS. INVESTIGATED METAL FAILURES AND CORROSION PROBLEMS. PROVIDED TECHNICAL SUPPORT TO FOUNDRY, FORGE, WELDING AND HEAT TREATING SHOPS. RESPONSIBLE FOR NONDESTRUCTIVE TESTS REQUIRED DURING NUCLEAR SUBMARINE OVERHAULS.

B.S. IN METALLURGICAL ENGINEERING, UNIVERSITY OF OKLAHOMA, 1962

55 SEMESTER HOURS GRADUATE CREDIT IN FINANCE, MARKETING, QUALITY ASSURANCE AND ORGANIZATIONAL BEHAVIOR, UNIVERSITY OF MISSOURI-KANSAS CITY

US NAVY TRAINING PROGRAM TP-6, NONDESTRUCTIVE TESTING, USNAD, CONCORD, CA, 1963

COMPLETED METALS ENGINEERING INSTITUTE COURSES "WELD INSPECTION AND QUALITY CONTROL" (1980); "CORROSION" (1965).

CLASSROOM AND ON-THE JOB TRAINING IN RADIATION SAFETY AND USE OF RADIOISOTOPES, PEARL HARBOR NAVAL SHIPYARD, 1962-65;
SAUDER CUSTOM FABRICATION, EMPORIA, KS, 1981,83.

CERTIFIED AS RADIOGRAPHER, INSPECTOR AND NONDESTRUCTIVE TEST SUPERVISOR (RT, UT, MP, PT) PER MIL-STD-271, MIL-STD-410 AND NAVSEA 250-1500-1; 1963-65

CERTIFIED AS LEVEL III (RT, UT, ET, MP, PT) BY THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, 1977-PRESENT. CERTIFICATE No. OB-731.

CERTIFIED AS LEVEL III (RT, UT, MP, PT) BY SAUDER CUSTOM FABRICATION, EMPORIA, KS, 1980-PRESENT

JOHN A. BRUNK

TRAINING AND EXPERIENCE IN THE USE OF RADIOISOTOPES

TRAINING

TYPE OF TRAINING	WHERE TRAINED	DURATION	ON THE JOB	FORMAL
RADIATION PROTECTION	USNAD CONCORD	2 DAYS	X	X
" "	PEARL HARBOR NAVAL SHIPYARD	3 YEARS	X	X
RADIOACTIVITY MEASUREMENT AND MONITORING	PEARL HARBOR NSY	3 YEARS	X	X
TECHNIQUES AND INSTRUMENTS	BENDIX, KANSAS CITY DIV.	10 YEARS+	X	X
MATHEMATICS & CALCULATIONS FOR USE & MEASUREMENT OF RADIOACTIVITY	PEARL HARBOR NSY	3 YEARS	X	X
	BENDIX, KANSAS CITY DIV.	10 YEARS+	X	X
BIOLOGICAL EFFECTS	USNAD CONCORD	1/2 DAY	X	
	BENDIX, KANSAS CITY DIV.	1 DAY	X	
	SAUDER CUSTOM FABRICATION	1 DAY	X	

EXPERIENCE

IR-192 UP TO 100 CURIES: PEARL HARBOR NAVAL SHIPYARD, 1962-65;
SAUDER CUSTOM FABRICATION, 1980-PRESENT. USES: SHOP, FIELD AND
SHIPBOARD RADIOGRAPHY.

Co-60 UP TO 10 CURIES: PEARL HARBOR NAVAL SHIPYARD, 1962-65. USE:
SHIPBOARD RADIOGRAPHY.

Cs-137 UP TO 30 CURIES: BENDIX KANSAS CITY DIV., 1972-86. USE:
SURVEY METER CALIBRATION.

NEUTRON FLUX FROM REACTOR (AT UNIVERSITY OF MISSOURI, COLUMBIA):
BENDIX KANSAS CITY DIVISION, 1977-84. USE: NEUTRON RADIOGRAPHY.

VARIOUS BETA SOURCES: HONEYWELL ORDNANCE DIVISION, 1967-68. BENDIX
KANSAS CITY DIVISION, 1968-84. USE: COATING THICKNESS MEASUREMENT.

CONTROL NO. 8723 5

JOHN A. BRUNK

PARTIAL LIST OF CLIENTS

ANDERSON ENGINEERING COMPANY, SPRINGFIELD, MO. EXAMINATION AND QUALIFICATION OF ULTRASONIC INSPECTOR.

ARCH MINERAL COMPANY, HANNAH, WY. TRAINING, EXAMINATION AND CERTIFICATION OF ULTRASONIC INSPECTORS. DEVELOPMENT OF TESTING TECHNIQUES FOR VERY COLD TEMPERATURES.

CENTURY HELICOPTERS, INC., FT. COLLINS, CO. ULTRASONIC INSPECTION OF HELICOPTER COMPONENT.

CHILLICOTHE IRON & STEEL, CHILLICOTHE, MO. ADVISED ON INSPECTABILITY OF WELD JOINT DESIGN ALTERNATIVES TO CUSTOMER REQUIREMENTS. ULTRASONIC EXAMINATION OF TEST WELDS.

CHOTEAU PROPERTIES, BEULAH, ND. TRAINING, EXAMINATION AND QUALIFICATION OF ULTRASONIC INSPECTORS.

CLARENCE KELLEY & ASSOCIATES, KANSAS CITY, MO. REVIEW OF US GOVERNMENT REQUESTS FOR PROPOSALS AND ASSISTANCE WITH PREPARATION OF SUBMITTALS.

EASTON AVIATION, EVANS, CO. ULTRASONIC INSPECTION OF HELICOPTER COMPONENT.

ENGINEERING SURVEYS AND SERVICES, COLUMBIA, MO. DEVELOPED INSPECTION METHODS FOR SPECIAL WELD CONFIGURATIONS. TRAINING, EXAMINATION AND QUALIFICATION OF MAGNETIC PARTICLE INSPECTOR.

GENERAL TESTING LABORATORIES, KANSAS CITY, MO. TRAINING, EXAMINATION AND QUALIFICATION OF MAGNETIC PARTICLE AND PENETRANT INSPECTORS.

HI-LINE PLASTICS, OLATHE, KS. ASSISTED IN INTERPRETATION AND NEGOTIATION OF US NAVY RADIOGRAPHIC INSPECTION REQUIREMENTS.

KANSAS CITY TESTING LABORATORIES, KANSAS CITY, MO. TRAINING, EXAMINATION AND QUALIFICATION OF ULTRASONIC, MAGNETIC PARTICLE AND PENETRANT INSPECTOR.

METRO AVIATION, INC., BATON ROUGE, LA. ULTRASONIC INSPECTION OF HELICOPTER COMPONENT.

MID AMERICA AEROSPACE, LENEXA, KS. TRAINING, EXAMINATION AND QUALIFICATION OF MAGNETIC PARTICLE AND PENETRANT INSPECTORS.

NEW ORLEANS SECTION, ASNT. CONDUCTED SEMINARS IN NEW DEVELOPMENTS IN ULTRASONIC AND MAGNETIC PARTICLE EXAMINATION TECHNIQUES.

NORTHWEST PIPE OF KANSAS, ATCHISON, KS. DEVELOPED FIXTURING FOR ON-LINE INSPECTION OF PIPE WELDS. TRAINING, EXAMINATION AND QUALIFICATION OF ULTRASONIC INSPECTORS.

SAUDER CUSTOM FABRICATION, EMPORIA, KS. COMPANY LEVEL III EXAMINER FOR RADIOGRAPHIC, ULTRASONIC, MAGNETIC PARTICLE AND PENETRANT METHODS. PREPARE WRITTEN NDT PROCEDURES. TRAINING, EXAMINATION AND QUALIFICATION OF INSPECTORS. ON-THE-JOB TRAINING IN NEW TECHNIQUES.

STAHL SPECIALTY COMPANY, KINGSVILLE, MO. TRAINING FOR PENETRANT INSPECTORS.

TRANS WORLD AIRLINES, KANSAS CITY, MO. DEVELOPMENT OF SPECIAL NDT TECHNIQUE FOR JT9D ENGINE

J. A. BRUNK

PUBLICATIONS AND PRESENTATIONS

(PARTIAL LISTING)

"APPLICATIONS OF ULTRASONICS IN PROCESS CONTROL". PAPER PRESENTED AT THE SOCIETY OF MANUFACTURING ENGINEERS MACHINING AND GAGING CONFERENCE, SAN FRANCISCO, CA, 1974.

"APPLICATIONS OF DRY CONTACT ULTRASONIC TRANSDUCERS". PROCEEDINGS OF THE 11TH WORLD CONFERENCE ON NONDESTRUCTIVE TESTING, VOL. 2, 1985. THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, COLUMBUS, OH.

IMPROVED MAGNETIC PARTICLE INSPECTION OF SMALL THREADED FASTENERS, BDX-613-3283, 1986. REPORT PREPARED FOR THE U.S. DEPARTMENT OF ENERGY UNDER CONTRACT No. DE-AC04-76-DPO0613. AVAILABLE FROM NTIS.

AN INVESTIGATION OF DRY-CONTACT ULTRASONIC GAGING, BDX-613-3421, 1986. REPORT PREPARED FOR THE U.S. DEPARTMENT OF ENERGY UNDER CONTRACT No. DE-AC04-76-DPO0613. AVAILABLE FROM NTIS.

"EFFECTS OF TEMPERATURE CHANGES ON THE RELIABILITY OF ULTRASONIC CONTACT ANGLE BEAM EXAMINATION". PAPER PRESENTED AT THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING SPRING CONFERENCE, TULSA, OK, 1986.

"AN INVESTIGATION OF DRY-COUPLED ULTRASONIC THICKNESS GAGING". PAPER PRESENTED AT THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING SPRING CONFERENCE, PHOENIX, AZ, 1987

"PERFORMANCE COMPARISONS OF DRY COUPLING WITH CONVENTIONAL ULTRASONIC TRANSDUCERS, 0.5 - 20MHZ", PROCEEDINGS OF THE 17TH SYMPOSIUM ON NDE, 1987. SOUTHWEST RESEARCH INSTITUTE, SAN ANTONIO, TX.

APPLICATION NOTES ON ULTRAN'S DRY COUPLING TRANSDUCERS, EPN-102, 1987. ULTRAN LABORATORIES, INC., STATE COLLEGE, PA

"ULTRASONIC CHARACTERIZATION OF CERAMICS BY DRY COUPLING TECHNIQUES". PAPER PRESENTED AT THE AMERICAN CERAMIC SOCIETY ANNUAL CONFERENCE, PITTSBURGH, PA, 1987.

"CALIBRATION OF WET MAGNETIC PARTICLE SUSPENSION FOR USE WITH AN ELECTROMAGNETIC YOKE", MATERIALS EVALUATION, OCTOBER, 1987. THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, COLUMBUS, OH

"APPLICATIONS AND ADVANTAGES OF SELF-COUPLING (DRY COUPLING) ULTRASONIC TRANSDUCERS FOR MATERIALS CHARACTERIZATION AND INSPECTION", ACOUSTO-ULTRASONICS THEORY AND APPLICATION, J. DUKE, ED., PP 221-237. PLENUM PRESS, NEW YORK, NY, 1988

APPLICATION NOTES ON ULTRAN'S AIR/GAS PROPAGATION TRANSDUCERS, EPN-103, 1987. ULTRAN LABORATORIES, INC., STATE COLLEGE, PA.

"ULTRASONIC MEASUREMENT OF PAINT AND ORGANIC COATINGS ON PLASTICS AND COMPOSITES". PAPER PRESENTED AT THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING FALL CONFERENCE, ATLANTA, GA, 1987.

"ULTRASONIC EXAMINATION OF ABSORBENT MATERIALS", MATERIALS EVALUATION, APRIL, 1988. THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, COLUMBUS, OH.

"THE INFLUENCE OF AMBIENT TEMPERATURE CHANGES ON ANGLE-BEAM ULTRASONIC EXAMINATION", MATERIALS EVALUATION, AUGUST, 1988. THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, COLUMBUS, OH.

"MEASURING THE RELATIVE SENSITIVITY OF MAGNETIC PARTICLE SUSPENSIONS AND CORRELATION OF DATA TO FLAW DETECTION". PAPER PRESENTED AT THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING FALL CONFERENCE, ANAHEIM, CA, 1988.

"SOME EFFECTS OF DELAY LINE MATERIALS ON THE PERFORMANCE OF HIGH FREQUENCY IMMERSION TRANSDUCERS". PAPER PRESENTED AT THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING FALL CONFERENCE, ANAHEIM, CA, 1988.

"MAGNETIC PARTICLE INSPECTION USING REMOTE VISUAL INSPECTION INSTRUMENTS", NDT HANDBOOK, VOLUME 6, MAGNETIC PARTICLE INSPECTION. AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, COLUMBUS, OH, 1989.

"FIELD TESTING OF STRUCTURAL WELDS", NDT HANDBOOK, VOLUME 6, MAGNETIC PARTICLE INSPECTION. AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, COLUMBUS, OH, 1989.



THE AMERICAN SOCIETY FOR
NONDESTRUCTIVE TESTING, INC.

4153 Arlinggate Plaza • Caller # 28518 • Columbus, Ohio 43228-0518
Telephone (614) 274-8003 • Telex 245347
Toll Free: USA • 1-800-222-ASNT; Ohio Only • 1-800-NDT-OHIO

September 10, 1987

Mr. John A. Brunk
10005 West 101st Street
Overland Park, KS 66212

Dear Mr. Brunk:

This letter is to inform you that you have successfully completed the requirements as set forth in the "Renewal of NDT Level III Certificates issued by ASNT. (Recertification)", published in the Redi Reference Guide/1984, page 613.

Please find enclosed your revised Level III certification documentation, which consists of a new wallet card and sticker(s).

Your continued support of ASNT's Level III Certification Program is greatly appreciated.

Sincerely,

Ronald H. Selner

Ronald H. Selner
Technical Services Manager

RHS/lch

Certificate No. OB-731
Radiography
9/87 TESTING METHOD 9/92
DATE ISSUED DATE EXPIRES
Ronald H. Selner
TECHNICAL SERVICES MANAGER ASNT

Certificate No. OB-731
Magnetic Particle
9/87 TESTING METHOD 9/92
DATE ISSUED DATE EXPIRES
Ronald H. Selner
TECHNICAL SERVICES MANAGER ASNT

Certificate No. OB-731
Ultrasonic
9/87 TESTING METHOD 9/92
DATE ISSUED DATE EXPIRES
Ronald H. Selner
TECHNICAL SERVICES MANAGER ASNT

Certificate No. OB-731
Penetrant
9/87 TESTING METHOD 9/92
DATE ISSUED DATE EXPIRES
Ronald H. Selner
TECHNICAL SERVICES MANAGER ASNT

Certificate No. OB-731
Eddy Current
9/87 TESTING METHOD 9/92
DATE ISSUED DATE EXPIRES
Ronald H. Selner
TECHNICAL SERVICES MANAGER ASNT

CONTROL NO 87235



1203 INDUSTRIAL BLVD.
 P. O. BOX 1474
 BORGER, TEXAS 79007
 806-273-2733

QUALITY CONTROL MANUAL

QC. Section: 4 PAGE 14 of 28
 Revision: 2 Date: 6-1-83

TITLE: PERSONNEL CERTIFICATION

FORM NDE-4



1203 INDUSTRIAL BLVD.
 P. O. BOX 1474
 BORGER, TEXAS 79007
 806-273-2733

NDE EXAMINER CERTIFICATION RECORD

James Hosack

		RADIOGRAPHY		
		I	II	III
PRIOR CERTIFICATION				
STATEMENT OF SATISFACTORY COMPLETION OF TRAINING				
DATE OF CERTIFICATION 1-13-88				
EXAM COPIES	GENERAL / DATE 1-13-88			
	SPECIFIC / DATE 1-13-88			
	PRACTICAL / DATE 1-13-88			
EXAM SCORES	GENERAL / % wts. .4		82.4	
	SPECIFIC / % wts. .3		83.34	
	PRACTICAL / % wts. .3		85	
	COMPOSITE		85.46	
CERTIFIED BY / LEVEL				

EYE EXAMINATION

RECERTIFICATION (REQUIRED 011)	RADIOGRAPHY		
	ULTRASONICS		
	MAGNETIC PARTICLE		
	LIQUID PENETRANT		

Certified by: *Walter Lincoln*
 Title D.R.S.O. Level III



1203 INDUSTRIAL BLVD.
P. O. BOX 1474
BORGER, TEXAS 79007
806-273-2733

QUALITY CONTROL MANUAL

QC. Section: 4 PAGE 12 of 28
Revision: 2 Date: 6-1-83

TITLE: PERSONNEL CERTIFICATION

FORM NDE-2



1203 INDUSTRIAL BLVD.
P. O. BOX 1474
BORGER, TEXAS 79007
806-273-2733

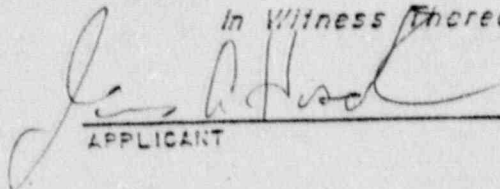
LEVEL OF CERTIFICATION AND TEST METHOD

THIS CERTIFIES THAT James Hosack

Has successfully completed the *REQUIRED TRAINING, EXPERIENCE* set forth in Panhandle N.D.T. & Inspection Inc. written procedures in accordance with the recommended practices of SNT-TC-1A (1980)

II (LEVEL) RT, MT, PT (TEST METHOD)

In Witness Whereof Our Signatures


APPLICANT


AUTHORIZED EXAMINER

EXAMINATION	TOTAL POINTS	% WT	SCORE
GENERAL	82.4	.4	32.96
SPECIFIC	83.34	.3	25.00
PRACTICAL	85.00	.3	25.50
COMPOSITE GRADE			85.46

GIVEN UNDER MY HAND THIS

MONTH 1 DAY 13 YEAR 88

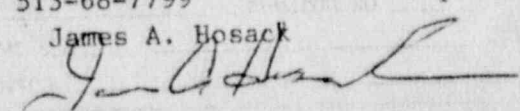
BY Norman P. Reese, II DRSO

TITLE DRSO



513-68-7799

James A. Hosack



08/27/62
01/31/93

CONTROL NO. 8723 5

MUSACK, JAMES, A STUDENT # 7055052-0 ENROLLMENT: 09/03/85

						SUMMARY				
SM-YR	DATE	DPT	CRSE	COURSE TITLE	CR GD,	PTS	ATT	COM	GPIS	GPA
FAL85	9/85	GEN	1014	BASIC MATH 2	4 A	16.0				
	9/85	GEN	1042	BASIC PHYSICS 2	2 A	8.0				
	10/85	NDT	1813	MAGNETIC PARTICLE PENETRANT	3 A-	11.1				
	10/85	NDT	1812	RADIATION SAFETY	2 A-	7.4				
	11/85	NDT	2804	RADIOGRAPHY	4 B	12.0				
	12/85	NDT	2814	ULTRASONICS	4 A-	14.8	19	19	69.3	3.64
SPR86	1/86	NDT	2834	WELD INSPECTION, CODES, STAND	4 A-	14.8				
	2/86	NDT	2824	EDDY CURRENT AND LEAK	4 A-	14.8	8	8	29.6	3.70
CUMULATIVE:							27	27	98.9	3.60

TRANSCRIPT ISSUED TO STUDENT

SOCIAL SECURITY # 513-68-7799 ACT/SAT:

MAJOR: NDT DEGREE:

CERTIFICATE: NDT DATE GRANTED: 02/28/86

DATE: 3-18-86
 REGISTRAR: *E. Ann Craig*
 CONTROL NO 87235
 TRANSCRIPT OFFICIAL ONLY IF SIGNED AND IMPRESSION SEALED.

**SPARTAN
SCHOOL OF AERONAUTICS**
TULSA, OKLAHOMA

DIPLOMA

THIS CERTIFIES THAT

JAMES ANDREW HOSACK

HAS SUCCESSFULLY COMPLETED THE
NONDESTRUCTIVE TESTING TECHNICIAN

COURSE PRESCRIBED BY THIS SCHOOL AND IS HEREBY
AWARDED THIS DIPLOMA

IN WITNESS WHEREOF OUR SIGNATURES THIS 28TH DAY OF FEBRUARY 1986

E. Ann Craig

DIRECTOR

William G. O'Neil

PRESIDENT



National Education Center

CONTINUAL NO. 87235

Certificate of Completion

This certifies that

James A. Hosack

has satisfactorily completed the Metallurgical Course entitled

Welding Inspection and Quality Control

co-sponsored by the
American Welding Society

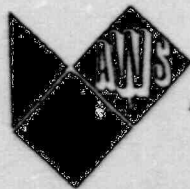
and

American Society for Metals

and in testimony thereof is awarded this

**CERTIFICATE and 5.0
CONTINUING EDUCATION UNITS**

this 5 day of February, 1986



AMERICAN WELDING SOCIETY

William T. DeLong
President



AMERICAN SOCIETY FOR METALS

John Pridgen
President

CONTROL NO 87235

SPARTAN SCHOOL OF AERONAUTICS

Graduate with Honors

AWARDED TO

James Andrew Hosack

Spartan School of Aeronautics takes great pride in commending you for your scholastic achievements. Your perseverance and dedication are valuable assets that will be recognized both now and in the future.

This Certification is awarded this 28 day of February 1986

William G. Orth

School President

Patrick R. J. Ad

Vice President, Education

CONTROL NO 87235



P.O. BOX 15512 1012 EAST 10TH STREET KANSAS CITY, MO 64106

816-474-7393

INSPECTION SERVICE

April-14-1989

UNITED STATES NUCLEAR
REGULATORY COMMISSION

RE: FEE.

SANDY FRAZIER.

AS PER OUR PHONE CONVERSATION
WE HAVE INCLOSED OUR FEE OF
\$230.00 THAT WAS OMITTED.

ANY HELP TO SPEED UP OUR
REQUEST WOULD BE APPRECIATED.

THANKS YOU.
F.H. ROUDENBUSCH.

APR 17 1989

RECEIVED

RECEIVED
APR 17 1989
REGION III