



December 24, 2014

Re: Phoenix National Laboratories Letter of Introduction

For: Arizona State Procurement Office
Annual Request for Qualifications and Experience
No: ADSP015-00004729

Phoenix National Laboratories, Inc. (PNL) is an independent third party inspection and testing company, and should be considered under the engineering heading for this submittal to the State of Arizona. PNL has two registered professional engineers licensed in the State of Arizona.

PNL conducts business in many areas of the construction industry. Some of these areas are: buildings and bridges, both new construction and retrofit, power plants, both new construction and outages, mining operations, aerospace, and ADOT projects.

A partial list of services provided and applications utilized are: Mechanical and destructive testing, including elasometric bearing pad testing for bridges; inspection and testing on fabrication and erection of buildings and bridges, this includes fireproofing and steel decking inspections; non-destructive testing such as x-ray, ultrasonic, magnetic particle, penetrant, and ground penetrating radar, utilized by clients in all areas of the construction industry; welding technology services providing training and certification of welders to all areas of the construction industry.

PNL provides its services to the Owners of a project, General Contractors, State of Arizona, Municipalities, architect and engineering firms, Arizona Department of Transportation (ADOT), local utilities (SRP and APS), and most mining companies in the state.

PNL hopes your agency will look favorably upon its submittal and appreciates any consideration you may give it. Please feel free to contact us if you have any questions or require additional information.

Sincerely,

Alexander Zuran III, President & P.E.



ATTACHMENT I – General Qualifications
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729**

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	Phoenix National Laboratories, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2837 E. Chambers Street
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85040
f. YEAR ESTABLISHED:	1994
(g1). OWNERSHIP - TYPE:	Private
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	SBE
h. POINT OF CONTACT NAME AND TITLE:	Alexander Zuran III, President
i. POINT OF CONTACT TELEPHONE NUMBER:	(602) 431-8887
j. POINT OF CONTACT E-MAIL ADDRESS:	alexiii@pnltest.com
k. NAME OF FIRM (If block 1a is a branch office):	Phoenix National Laboratories, Inc.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
P.E. Mechanical & Civil Engineering	P	1	N/A
P.E Mechanical Engineering	P	1	N/A
ASNT Non-Destructive Testing Level III	P	1	N/A
Non-Destructive Testing Level II	P	19	N/A
AWS Certified Welding Inspector (CWI)	P	6	N/A
Total	N/A	28	N/A



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Alexander Zuran III	b. ROLE IN THIS CONTRACT Owner/President	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 20

d. LOCATION *(City and State)* Phoenix, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> -Bachelor of Science in Engineering -Two-year Certificate of Completion in Nondestructive Testing	f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Professional Engineer - Civil, State of Arizona, Registration No. 32346 Registered Professional Engineer - Mechanical, State of Arizona, Registration No. 29365 Certified Level III in UT, RT, ET, MT, and PT methods, ASNT Certificate No. NM-849
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 AWS Certified Welding Inspector, AWS Certificate No. 85050741
 ICBO Special Inspector, Structural Steel and Welding, Certificate No. 66737
 ICBO Special Inspector, Spray Applied Fireproofing, Certificate No. 74768

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Solana Solar Power Plant, Gila Bend, AZ	(2) YEAR COMPLETED 2014
		Professional Services ✓ \$1,500,000
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided quality assurance and quality control services. Also provided visual inspection and non-destructive testing and failure analysis services for the project.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Phoenix Children's Hospital Expansion, Phoenix, AZ	(2) YEAR COMPLETED 2012
		Professional Services ✓ \$250,000
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided quality assurance and quality control services, including visual inspection and non-destructive testing services during steel fabrication and erection on the project.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Contractors for the Arizona Department of Transportation (ADOT), Statewide, AZ	(2) YEAR COMPLETED On Going
		Professional Services ✓ \$300,000 (yearly)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provide mechanical and non-destructive testing services on elasometric bearing pads used on all concrete and steel bridge and overpass girders throughout the State of Arizona. In addition, same services provided to many other states.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Laron Engineering Co., Kingman, AZ (and Statewide)	(2) YEAR COMPLETED On Going
		Professional Services ✓ \$480,000 (yearly)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided quality assurance and quality control services and non-destructive testing service at power plants located throughout Arizona.	<input checked="" type="checkbox"/> Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Salt River Project (SRP – Utility)	(2) YEAR COMPLETED 2013
		Professional Services ✓ \$1,000,000
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided quality assurance and quality control services and non-destructive testing services at SRP power plants during outage seasons.	<input checked="" type="checkbox"/> Check if project performed with current firm



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Street and Park Light Pole Inspections City of Phoenix, Tempe, and Gilbert, Arizona	2010 and On-Going	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Various Phoenix Metro Cities	\$50,000 to \$200,000	\$50,000 to \$200,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PNL provides visual inspection and testing of the base of light poles. The purpose being to check for corrosion which may cause the pole to fall during wind storms.

The relevance to this State of Arizona contract demonstrates that PNL is experienced with doing business with many municipal and county agencies throughout the state.

The length of these contracts depends on the quantity of poles that are requested to be inspected. The amounts vary from 1,000 to 6,000 poles and the length of each project is between 1 and 3 months duration, and is on going.

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Jacob's Engineering Company Morenci, Arizona	2013-2014	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Freeport McMoran	Time and materials (\$2 billion)	\$364,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PNL provided quality control and non-destructive testing services to Jacob's Engineering, who was the General Contractor that Freeport McMoran solicited for their expansion project.

The relevance to this State of Arizona contract demonstrates that PNL can meet construction schedules on any size project, from small buildings to very large buildings and piping systems.

In addition to Jacob's, PNL supplied similar services to several other contractors hired by Freeport McMoran on this project. The total billing for these contractors was approximately \$500,000 over a period of two years.



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Stinger Welding, Inc. (Steel Fabrication) Coolidge, Arizona (Bridge – Oakland, California)	September, 2008 to April, 2009	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Oakland, California	Time and materials (\$100 Million – Bridge)	\$89,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PNL provided X-Ray testing of welds made by Stinger Welding, Inc. for the Oakland Bay Bridge by-pass; steel fabrication being made by Stringer. PNL's work was reviewed and accepted by CALTRANS, which is the State of California Bridge and Highway Agency.

This project demonstrates PNL's ability to provide testing on very large projects, with earthquake testing requirements on bridges and buildings.

The length of this project at Stinger was over a 7 month period with a demanding schedule.

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Freeport-McMoran Co. – Molybdenum Plant Morenci, AZ	2013-2014	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Freeport-McMoran, Inc.	Time and materials (\$1 billion)	\$908,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PNL provided new state of the art phased array ultrasonic testing on piping systems for the client's new molybdenum plant at Morenci, Arizona, and acid piping at its Safford, Arizona mine sites.

The relevance to this State of Arizona contract demonstrates that PNL utilizes the best testing equipment that is available and can meet any testing needs required by any architect or engineering firm, as this was a design and build project.

The length of this project was approximately one year.



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
VA Hospital, Las Vegas, Nevada	2010	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Department of Veteran Affairs (VA)	\$100,000,000 hospital	\$276,000

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

PNL provided A.W.S – C.W.I inspectors to monitor steel fabrication for the project which was done at Schuff Steel's 19th Avenue shop in Phoenix, Arizona. PNL also provided all of the ultrasonic testing on all of the welds in the fabricated steel columns for the project.

The relevance to the State of Arizona contact demonstrates that PNL has the experience to work on large building projects which are designed by architects and engineers.

The length of this project was over a one year period.



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6. ADDITIONAL INFORMATION

a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)

- PNL has ISO 17025 laboratory accreditation by the Perry Johnson Laboratory
- PNL technicians are all certified to ASNT-TC-IA Standards
- PNL is knowledgeable in all national codes, such as: American Welding Society (AWS), American Society of Mechanical Engineers (A.S.M.E), American Petroleum Institute (A.P.I), and Military Specifications (Mil-Stds.)
- PNL is a licensed by the State of Arizona to possess and use radioactive isotopes for use in x-ray operations.
- PNL has welding test equipment at its site or can provide the certification tests in the field.

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	15%
b. Percentage of Total Work Attributable to Non-Government Work:	85%

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: Alexander Zuran III

Date: 12/24/2014

Name: Alexander Zuran III

Title: President/Owner



Phoenix National Laboratories, Inc.
2837 E. Chambers Street, Phoenix, AZ 85040
P: 602.431.8887 • F: 602.431.8889 • www.pnltest.com

SUMMARY OF SERVICES

COMMERCIAL • INDUSTRIAL • MUNICIPAL • TRANSPORTATION • UTILITY

OVERVIEW

ISO 17025 ACCREDITED

PNL was established in 1994 in Tempe, AZ and has grown into a 10,000 sq. ft. laboratory in Phoenix, AZ. We have provided services regionally, nationally and internationally. Our multi-disciplined experienced staff is fully equipped to provide engineering, engineering design, testing and inspection services on a periodic or full time basis, depending on the size and scope of your project. We are dedicated to providing our clients with a professional, efficient service at a fair price and we believe that our reliable designs, test data, report, and advice are indispensable to your project.

Phoenix National Laboratories, Inc. (PNL) is a full service testing company specializing in nondestructive testing and associated services including steel inspection, welder qualifications, welding procedure qualifications, and physical/mechanical testing. Our laboratory operations are located centrally in the Phoenix metropolitan area within 3 miles of Sky Harbor International Airport. We offer both field and laboratory services to clients in the construction, manufacturing, fabrication, and utility industries. Our quality system meets ASME, AWS, ASNT and ISO requirements. We also hold a State of Arizona Radioactive Materials license for radiography source material. Our technicians are certified in accordance with ASNT, AWS, and ICBO programs. A brief description of our services is listed below.

NONDESTRUCTIVE TESTING

Test Methods include:

- Ultrasonic (UT) → Flaw Detection, Phased Array, Thickness Measurements, Contact/Immersion Instruments
- Radiography (RT) → X-ray/Gamma Ray, Ground Penetrating Radar (GPR), Computed Radiography
- Magnetic Particle (MT) → Mag/Demag, AC/DC Yokes, Prods, Coils, Wet/Dry, Stationary Lab Unit
- Liquid Penetrant (PT) → Visible, Fluorescent, Field, Laboratory Line, All Types, All Methods
- Visual (VT) → Weld Inspection, Verification Inspection
- Eddy Current (ET) → Heat Exchanger Tubes, Crack Detection, Material Sorting
- Leak Testing (LT) → Vacuum Box, Hydrostatic Testing

- ASNT Level III Consulting • Training • Engineering

SPECIAL INSPECTIONS

Structural Steel and Welding

Shop Fabrication Inspection
Field Erection Inspection
 Structural Frame - AWS D1.1
 Deck and Roof Welds - AWS D1.3
 Composite Deck: Stud Welding AWS D1.1
High Strength Bolts

Spray Applied Fireproofing Inspection

Substrate Examinations
Thickness Measurements
Density Tests
Adhesion (Pull-Off) Tests

WELDING TECHNOLOGY

Welder Certifications • Welding Procedures and Specifications (WPS's & PQR's)
Design and Qualification • Consulting • Welder Test Booth
SMAW (Stick) • FCAW (Flux Core) • GMAW (Mig) • GTAW (Tig) • SAW (SubArc)
ASME • AWS • API • MIL-STD

PHYSICAL - MECHANICAL TESTING

ASTM Testing of: • Elastomeric Bearing Pads • Metals • Rubbers • Plastics • Composites

Including: Structural Testing, Design and Analysis, Product Testing, Proof/Load Testing, Failure Analysis, Engineering



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NONDESTRUCTIVE TESTING

- Ultrasonic (UT) → Flaw Detection, Thickness Measurements, Contact/Immersion Instruments, Phased Array
- Radiography (RT) → X-ray/Gamma Ray, Field and Laboratory
- Magnetic Particle (MT) → Mag/Demag, AC/DC Yokes, Prods, Coils, Wet/Dry, Stationary Lab Unit, Mobile Units
- Liquid Penetrant (PT) → Visible, Fluorescent, Field, Laboratory Line, All Types, All Methods
- Visual (VT) → Weld Inspection, Verification Inspection
- Eddy Current (ET) → Crack Detection, Material Sorting
- Leak Testing (LT) → Vacuum Box, Hydrostatic Testing
- GPR → Ground Penetrating Radar (Structure Scan), Pachometer
- Hardness Testing → Field Portable Microhardness and Rebound Testing. Krautkramer Mic-20,
- Alloy Identification → Thermo Niton Alloy Analyzer
- ASNT Level III Consulting • Training • Engineering

SPECIAL INSPECTIONS

- | | |
|---|---|
| <ul style="list-style-type: none">■ <u>Structural Steel & Welding</u>

Shop Fabrication Inspection
Field Erection Inspection<ul style="list-style-type: none">Structural Frame - AWS D1.1Deck & Roof Welds - AWS D1.3Composite Deck: Stud Welding AWS D1.1Rebar Welding: AWS D1.4High Strength Bolts
Epoxy Anchors | <ul style="list-style-type: none">■ <u>Spray Applied Fireproofing Inspection</u>

Substrate Examinations
Thickness Measurements
Density Tests
Adhesion (Pull-Off) Tests |
|---|---|

WELDING TECHNOLOGY

AWS • ASME • API • MIL-STD

- Welder Certifications → SMAW (Stick) • FCAW (Flux Core) • GMAW (Mig) • GTAW (Tig) • SAW (SubArc)
Six Laboratory Test Booths Available
- Welding Procedures and Specifications (WPS's & PQR's) → Preparation and Consulting
- Full X-ray and Mechanical Testing Capabilities
- Design and Qualification • Consulting • Welder Test Booths

PHYSICAL - MECHANICAL TESTING

- ASTM Testing of Metals, Rubbers, Plastics, Composites
- Tensiles, Bends, Charpy V-notch, Macroetch and Break Testing for Welder and Procedure Qualification
- Product and Material Proof Loading and Testing to Destruction
- Multiple Universal Testing Machines with Capabilities from 120 Lb through 400,000 Lb
- 2 Million Pound Compression Machine with 300,000 Lb Simultaneous Shear Capability
- 25,000 psi Pressure Test Cart → Hydraulic, Pneumatic, Hydrostatic
- Elastomeric Bearing Pad Testing
- Engineering Consulting Services Including Failure Analysis and Expert Witness Services

ALEXANDER ZURAN III, P.E.

PRESIDENT & QA MANAGER

PROFESSIONAL SUMMARY

Alex Zuran III has over 30 years experience in the Engineering, Testing and Inspection fields, providing services for clients in the construction, power generation, manufacturing, steel, refinery, fabrication, aerospace, and machining industries. His current responsibilities include managing overall projects, training and certifying inspection and test personnel, implementing procedures and determining testing methods as applicable to the specific projects, and overseeing quality systems at PNL. Mr. Zuran reviews and prepares cost proposals including scopes of services based on engineering plans and specifications and will normally participate during technical disputes or disagreements, often determining resolution.

CERTIFICATIONS/QUALIFICATIONS

Registered Professional Engineer - Civil, State of Arizona, Registration No. 32346
Registered Professional Engineer - Mechanical, State of Arizona, Registration No. 29365
Certified Level III in UT, RT, ET, MT, and PT methods, ASNT Certificate No. NM-849
AWS Certified Welding Inspector, AWS Certificate No. 85050741
ICBO Special Inspector, Structural Steel and Welding, Certificate No. 66737
ICBO Special Inspector, Spray Applied Fireproofing, Certificate No. 74768

EDUCATION AND TRAINING

Bachelor of Science in Engineering, Purdue University, 1987
Two-year Certificate of Completion in Nondestructive Testing, Hutchinson Technical College, Hutchinson, MN 1981
Safety Inspection of In-Service Bridges, NHI, 80 hrs., Dec. 1995
Causes, Detection and Evaluation of Corrosion, ASNT, March 1995
MSHA Training, St. Paul Fire and Marine Insurance Company, Phelps Dodge - Morenci, 24 hrs, Nov. 1994
Radiation Safety, MQS, 40 hrs., 1993
Dupont Safety Training Observation Program, Salt River Project, 1992
Vibration Signature Analysis, Technical Associates of Charlotte, 40 hours, 1992
Steam Turbine Fundamentals, American Society of Mechanical Engineers, 2.1 CEU, 1991
Digital Signal Acquisition and Processing, Electric Power Research Institute, 40 hrs, 1990
Radiation Safety Training for Industrial Radiographers, Gamma Industries, 40 hrs., 1979
Advanced Skills Ultrasonic Training - Phased Array, David NDE, Inc., 80 hrs, June 2010

PROJECT EXPERIENCE

- Santan Expansion Project, Gilbert, AZ, 2003 - 2004
- Deer Hitachi, Tempe, AZ, 2003 - 2004
- NEM Tube Replacement, AZ, 2003
- US Army Corp of Engineering - 2003
- Serra Catholic School, Buckeye, AZ, 2002
- Gila Bend Generating Station, Gila Bend, AZ, 2001 - 2003
- Boeing Apache Tail, Mesa, AZ, 2001
- Griffith Energy Project, Kingman, AZ, 2000-2001
- Reliant Energy Desert Basin, Casa Grande, AZ 2000 - 2001
- Southpoint Power Project, Mohave, AZ 2000
- Miller Park Baseball Stadium Roof Structure, 1998-1999, Milwaukee, WI
- Querino Wash Bridge Inspection Repair Project, 1997, AZ
- ADOT Bridge Inspection Program, 1992-1994, Sub to Baker Engineers, AZ
- The City of Scottsdale, Inspection of Traffic Light Poles
- TengizChevroil, Kazakstahn (Russia), Automated Ultrasonic examination of pressure vessels
- Discover Card Building, Phoenix, AZ. Weld Inspection of Joists and Girders
- Ross Products Division/Abbott Laboratories, Casa Grande, AZ. Erosion/corrosion survey of process piping
- Salt River Siphon, Phoenix, AZ. Radiography on 21' diameter fabricated pipe
- Heber Geothermal Power Plant, El Centro, CA. Testing and Inspection during construction of power plants
- SRP Valley Piping Project, Phoenix, AZ. Erosion/corrosion program for three valley steam plants.
- Navajo Generating Station, Page, AZ. Heat exchanger, turbine, and boiler inspections during overhauls
- Blast Furnace Reline, East Chicago, IN. Weld inspection during major reconstruction of blast furnaces
- Resident Shop Inspector, Chicago Heights, IL. Shop Inspection of large Girder Bridges

EMPLOYMENT HISTORY

- President and QA Manager for Phoenix National Laboratories, Inc., Phoenix, AZ 2009 to Present
- Vice President and General Manager for Phoenix National Laboratories, Inc., Phoenix, AZ 1995 to 2009
- Director Nondestructive and Mechanical Service for Western Technologies Inc., Phoenix, AZ 1992 - 1995
- Senior Engineer for Salt River Project, Phoenix, AZ 1988 - 1992
- NDT Technician for MQS, South Holland IL 1986 - 1988
- Resident Fabrication Inspector for Law Engineering Testing, Chicago Heights, IL 1985 - 1986
- NDT Technician for Calumet Testing Services, Inc., Griffith, IN 1979 - 1985

Richard V. Viduka

INSPECTOR

PROFESSIONAL SUMMARY

Mr. Viduka has over 40 years experience working in inspection, quality assurance and the construction industry. His experience ranges from that of small on call projects to multi-million and billion dollar construction projects. He has worked in the building construction, bridge construction, shop fabrication, piping, fossil power and nuclear power industries. He is the. Former owner of two NDE Labs. and a Medical Implant casting company.

CERTIFICATIONS/QUALIFICATION

Former AWS Certified Welding Inspector
Former ASNT Level III all NDE methods
SNT-TC-1A Level II Technician, RT, MT, PT, UT, Methods

EDUCATION AND TRAINING

University of Hawaii- Math, Science & Engineering
Brook Army Medical School- X-ray Technician
Quality Engineering Courses- Seminars in QC, SPC, ISO 9000 Implementation
LSU- nuclear Science Center- Industrial Radiography

PROJECT EXPERIENCE

- Bridges- North Dakota (2007), Illinois Tollway (2005), BNSF Bridges Wisconsin (2006), 20+ Various, I-20 -Vicksburg, MS, I-80- Davenport, IA, Golden Gate, San Francisco CA (replace cables).
- Refinery Turnarounds- Amoco, Exxon Mobil, & Various Plants.
- Power Plants; Calpine Plant Bullhead City, AZ, Griffith Plant Kingman, AZ, Desert Basin Casa Grande, AZ
- Fossil Plants, Schaffer Units 14 & 15, (IN) Nuclear Plants, River Bend Units 1 & 2, (LA) Lasalle Power Plant (IL), Palo Verde Plant (AZ)
- Buildings; John Hancock, Standard Oil, McCormick Place, Notre Dame Library, Phoenix Childrens & Las Vegas Hospitals.
- Phoenix Cardinal Football Stadium, Milwaukee Baseball Stadium.
- New York Port Authority; JFK Airport Signage, 911 Memorial.

EMPLOYMENT HISTORY

- Phoenix National Labs. Project Mgr. & Business Devel.-2007 - Present
- R. W. Hunt & NDT Group, AWS Certified Weld Inspector. - 2003-2006
- Operations Manager MQS/Cooperheat. 2003
- Sales Manager for AMEC Testing 2002
- Business Development Manager Phoenix National Labs 1998-2002
- Quality Control Manager, Union Tank Car company 1997-1998
- QA Manager Consolidated Crane 1993-1997
- General Manager Conam Inspection 1989-1993
- President & Owner; Warsaw Industrial Xray & Medcast Inc. - 1981-1989
- VP & General Manager Calumet Testing 1973-1981
- QA Manager Allied Structural Steel 1970-1973

KOREY DWYER

SENIOR NDT TECHNICIAN

PROFESSIONAL SUMMARY

Mr. Dwyer graduated from Ridgewater College with an AAS in nondestructive testing in April 2002 and has been employed with Phoenix National Laboratories, Inc. since then. He has achieved Level II status in several NDT methods as well as CWI certification and has gained inspection and testing experience working on several power plant and construction projects for PNL including high strength bolting, visual weld inspection, ultrasonic and radiography of structural, vessel and piping components.

CERTIFICATIONS/QUALIFICATIONS

AWS Certified Welding Inspector Cert. No. 09081141
ASNT SNT-TC-1A Level II - RT, MT, PT, UT & VT Methods
Arizona Radiographer - License No. 7-415
MSHA - Safety Certified

EDUCATION AND TRAINING

Ridgewater College, Hutchinson, MN - Associates of Applied Science in Nondestructive Testing
Southern Illinois University, Edwardsville, IL - General Studies

PROJECT EXPERIENCE

- Metcalf Expansion Project, FMI- Morenci, AZ - UT Phased Array and CWI on piping and structural components
- Solana Solar Plant, Gila Bend AZ - Computed Radiography of high pressure steam piping
- Navajo Generation Station, Page, AZ, Unit 2 Major - NDE on various steam path components
- Springerville Unit 4, Springerville, AZ - Radiography on boiler and steam line welds
- Santan Expansion Project - Unit 6, Gilbert, AZ, NDT of pressure piping
- GE Transportation Axle Hub Castings - Radiography on cast component
- Navajo Generation Station, Page, AZ, Unit 3 Minor - NDE on various steam path components
- Friendship Village, Tempe, AZ - Radiography on Concrete Slabs
- Navajo Generating Station, Unit 1 Overhaul, Spring 2005 - NDE on various piping components
- Navajo Generating Station, Unit 2 Overhaul, Spring 2004 - NDE on various steam path components
- Santan Expansion Project - Units 4 & 5, Gilbert AZ, Radiography of Pressure Piping
- Gila River Power Project, Gila River, AZ - Radiography of High Pressure Steam Piping
- Mesquite Power Project, Tonopah, AZ - Radiography of High Pressure Steam Piping
- Smith Group - VT, UT Fab Shop Weld inspection on El Centro Border Control Station Structural Steel
- Mine Shovel Transmission Parts and Electric Mmotor Shafts at P&H Mesa, AZ - Ultrasonic Testing
- On-Call Services for Salt River Project, Phoenix, AZ
- Continental Helicopters, Phoenix, AZ - Magnetic Particle Testing
- City of Glendale - Ultrasonic Thickness & Visual Inspection of Street Light Poles
- Welder Qualification, Phoenix, AZ - X-ray Welder Coupons and PQR Mechanical Testing

EMPLOYMENT HISTORY

- Phoenix National Laboratories, Inc., NDT Technician, May 2002 to Present

Joseph Georges

Welding Inspector

PROFESSIONAL SUMMARY

Mr. Georges has been working in a the welding fabrication industry for over 35 years. He has performed various duties including operations management, quality assurance, quality control, NDE, welding, inspection, and welder training. He has been a certified welding inspector for 13 years and a CWB Welding Supervisor with the Canadian Welding Bureau. He had developed AISC quality control programs as well as planned directed, and managed projects to ensure budget and quality objectives were met. Mr. Georges is in charge of PNL's Welding Technology Program overseeing the testing and certification of welders, welding operators and welding procedures. He also performs special inspections during fabrication and construction of buildings.

CERTIFICATIONS/QUALIFICATIONS

American Welding Society - Certified Welding Inspector Cert# 99121631
International Code Council - Certified Structural Steel & Bolting Inspector Cert#5062857
MSHA 5000-23 - 24 hours

EDUCATION AND TRAINING

Maricopa County Skills Center, Certified Welder's Program: SMAW, GTAW, GMAW, FCAW - 1978
St Mary's Area Vocational Center - Cabinetmaking, 1975

PNL PROJECT EXPERIENCE

- West Valley Medical Center, Glendale, AZ, Welding Inspection on structural frame
- Sunpower Solar Star Project, Welding procedures, welder qualifications and inspection of robotic welding
- Solana Solar Plant - Welding inspection of aluminum recovery system piping
- AZZ / The Calvert Company/Isophase Bus Duct - Unit 21

- Multitude of fabricated steel projects with the various fabricators below.

EMPLOYMENT HISTORY

- Phoenix National Laboratories, Inc., Phoenix, AZ, Welding Technology Manager, April 2013 to Current
- American Steel Corporation, Apache Junction, AZ, QC Manager, 2001 to 2013
- Inland Inspections, Phoenix, AZ, Independent Inspector, 2000 - 2001
- United Steel, Gilbert, AZ, QC Manager, 1998 - 2000
- Sandvick Equipment, Phoenix, AZ, Shop Foreman, 1989 - 1998
- Various manufacturers and fabricators in the Phoenix area. 1979 - 1989
- Maricopa Skill Center, Phoenix, AZ, Welding Instructor, 1978 - 1979

KYLE FLEEGE, E.I.T.

**PROJECT MANAGER
PHYSICAL/MECHANICAL LAB**

PROFESSIONAL SUMMARY

Mr. Fleege has over 4 years experience performing and supervising testing and inspection on elastomeric bridge bearings. He is responsible for the Quality Control including training and certification of personnel, equipment maintenance and calibrations, procedures and techniques. He is also responsible for preparing written proposals, communicating with Clients and keeping work on schedule. Mr. Fleege is working toward his Professional Registration.

EDUCATION AND TRAINING

University of Notre Dame, Bachelor of Science in Mechanical Engineering, 2007
OSHA - 30 hour Construction Safety & Health

CERTIFICATIONS/QUALIFICATIONS

Thermo Fisher Scientific Operational Training for Niton XRF Spectrum Analyzer, 2009
GSSI - Subsurface Interface Radar in Engineering and Geophysical Investigations, 2009
Assistant Radiographer, 2008
MSHA Certificate of Training - Current

EMPLOYMENT HISTORY

- Project Manager, Phoenix National Laboratories, Inc. 2008 - Present.
- Mechanical Engineer, Kiewit Western Company, 2007 - 2008