

**EXHIBIT NO. \_\_ (DB-2)**  
**DOCKET NO. PG-041624**  
**WITNESS: DENNIS BURKE**

**BEFORE THE  
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**PUGET SOUND ENERGY, INC.,**

**Respondent.**

**Docket No. PG -041624**

**FIRST EXHIBIT (PROFESSIONAL QUALIFICATIONS) TO THE  
PREFILED DIRECT TESTIMONY OF  
DENNIS BURKE (NONCONFIDENTIAL)  
ON BEHALF OF PUGET SOUND ENERGY, INC.**

**AUGUST 15, 2005**

# N. DENNIS BURKE, PE

## QUALIFICATIONS & EXPERIENCE

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- ⇒ 38 years Corrosion Control Engineering Experience
- ⇒ BS/1967/Chemical Engineering, University of Pennsylvania
- ⇒ MBA/1975/Business Administration, University of Pittsburgh
- ⇒ 1974/Professional Engineer/PA Also; MD, WA,
- ⇒ 1974/Certified/NACE International/Corrosion Specialist 1377

Mr. Burke has worked in the corrosion control field on a continuing basis since 1967. He is experienced in all phases of corrosion control for buried and submerged structures. Particular emphasis has been with buried and submerged metallic structures. Among the facilities for which he has experience are traveling and fixed intake screens for cooling water systems, bascule gates for fresh water dams, dock and related marine structures, at grade storage tanks; buried pipelines including water transmission, natural gas, and oil products pipelines; natural gas distribution systems; fuel hydrant systems; nuclear generating stations; and D.C. transit systems; and reinforced concrete structures;. Several comprehensive evaluations of military establishment utility gas piping were completed which a review of the compliance with the corrosion control portions of the Code of Federal Regulations, Part 192 related to natural gas distribution piping. In 1997, Mr. Burke was presented with the "Colonel George C. Cox Outstanding Award" presented at West Virginia University by the Appalachian Underground Corrosion Short Course.

## **SELECTED REPRESENTATIVE AND RELEVANT PROJECTS:**

Alyeska Pipe Line Service Company 1994-95, Project Manager for the design of cathodic protection upgrades for portions of the Trans Alaska Pipeline. The project involved consideration of alternate cathodic protection sources and construction practices in remote locations.

Alyeska Pipe Line Service Company 1995, Project Manager for the study of cathodic protection feasibility for portions of a natural gas transmission line buried in permafrost and chilled to 28° F.

Alyeska Pipe Line Service Company, 1993-96, Project Manager for the design of cathodic protection upgrades for portions of the Trans Alaska Pipeline. The project involved consideration of alternate cathodic protection sources and construction practices in remote locations.

Columbia Gas System, Pittsburgh Group Companies, 1967-73, Staff Corrosion Engineer responsible for development of operating standards and procedures, training of corrosion control personnel and project engineering of cathodic protection systems for natural gas transmission, distribution and storage facilities. A major factor of the work assignment

involved extensive stray current studies and evaluations of the Port Authority of Allegheny County DC street car trolley system's influence on the natural gas distribution system.

Daniel, Mann, Johnson & Mendenhall, 1993, Project Manager for Stray Current Study for Denver RTD Starter System. Project involved the development of design guidelines for stray current corrosion control buried water, wastewater, and natural gas pipelines within the zone of DC stray current influence of the light rail transit route.

Gas Company of New Mexico, 1994, Project Manager for the evaluation of fusion bonded epoxy coatings used for gas distribution piping.

Natural Gas Pipeline Company of America, 1997, Associate Investigator for the review of the procedures, policies, and personnel associated with the corrosion control program. Reviewed and commented on in-house procedures and policies and conformance with pipeline safety regulations, assessed organization of corrosion control personnel, performed field audits relative to knowledge of company procedures and technical proficiency.

Questar Natural Gas, 1998, Principal Engineer for a review of the impact of the Utah Transit Authority Salt Lake City East/West Extension on existing and replacement gas distribution piping along the LRT alignment. Recommendations for corrosion control, cathodic protection, and stray current monitoring were made based on the UTA design criteria for stray current control.

U.S. Army Corps of Engineers, 1996, Project Manager and Engineer for the evaluation of cathodic protection systems at the Mikelson Safety Center, ND. The project involved determining the cathodic protection status of the natural gas piping on the facility, compliance with federal pipeline safety regulations, and recommendations for upgrade to current standards.

U.S. Army Corps of Engineers, 1996-1997, Project Manager and Engineer for the evaluation of cathodic protection systems at Fort Riley, KN. The project involved determining the cathodic protection status of the natural gas piping and, compliance with federal pipeline safety regulations, steam lines, water storage tanks, and buried aviation fuel tanks on the facility and recommendations for upgrade to current standards.

Washington Natural Gas Co. (Puget Sound Energy Co.), 1996 Project Engineer for the investigation of cathodic protection levels for buried steel propane storage vessels, compliance with state corrosion control regulations, and recommendations for upgrading existing cathodic protection facilities.

## **PROFESSIONAL AFFILIATIONS AND PUBLICATIONS**

Available upon request