

September 28, 2006

Mr. Gary Van Middlesworth
Vice President
Duane Arnold Energy Center
3277 DAEC Road
Palo, Iowa 52324-9785

SUBJECT: DUANE ARNOLD ENERGY CENTER - REQUEST FOR ADDITIONAL
INFORMATION RELATED TO THE REQUEST FOR RELIEF CONCERNING
FLOW MEASUREMENT FOR THE STANDBY LIQUID CONTROL PUMPS
(TAC NO. MD1844)

Dear Mr. Van Middlesworth:

Your letter of May 8, 2006, submitted a request for relief concerning flow measurement for the standby liquid control pumps. We are reviewing this information, and find that additional information is needed as shown in the enclosed request for additional information (RAI). A telephone conference call was held on July 25, 2006, to discuss this RAI. Deirdre Spaulding, former Project Manager, spoke with Tony Browning of your organization on August 10, 2006, and he agreed to respond within 30 days of receipt of this RAI. If you have any questions, please contact Karl Feintuch at (301) 415-3079.

Sincerely,

/RA/

Richard B. Ennis, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-331

Enclosure: As stated

cc w/encl: See next page

Mr. Gary Van Middlesworth
Vice President
Duane Arnold Energy Center
3277 DAEC Road
Palo, Iowa 52324-9785

September 28, 2006

SUBJECT: DUANE ARNOLD ENERGY CENTER - REQUEST FOR ADDITIONAL
INFORMATION RELATED TO THE REQUEST FOR RELIEF CONCERNING
FLOW MEASUREMENT FOR THE STANDBY LIQUID CONTROL PUMPS
(TAC NO. MD1844)

Dear Mr. Van Middlesworth:

Your letter of May 8, 2006, submitted a request for relief concerning flow measurement for the standby liquid control pumps. We are reviewing this information, and find that additional information is needed as shown in the enclosed request for additional information (RAI). A telephone conference call was held on July 25, 2006, to discuss this RAI. Deirdre Spaulding, former Project Manager, spoke with Tony Browning of your organization on August 10, 2006, and he agreed to respond within 30 days of receipt of this RAI. If you have any questions, please contact Karl Feintuch at (301) 415-3079.

Sincerely,

/RA/

Richard B. Ennis, Senior Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-331

Enclosure: As stated

cc w/encl: See next page

DISTRIBUTION:

PUBLIC	LPL3-1 R/F	RidsNrrPMREnnis	RidsNrrLATHarris
RidsNrrDorlLple	RidsOgcRp	RidsAcrsAcnwMailCenter	RidsRgn3MailCenter
RidsNrrDorlDpr	TLiu	YWong	KFeintuch

ADAMS Accession Number: ML062200308

OFFICE	NRR/LPL3-1/PM	NRR/LPL3-1/PM	NRR/LPL3-1/LA	NRR/LPL3-1/(A)BC
NAME	KFeintuch	REnnis:ca	THarris	MMurphy
DATE	09/21/06	09/21/06	09/21/06	09/28/06

OFFICIAL RECORD COPY

REQUEST FOR ADDITIONAL INFORMATION
RELATED TO THE
FLOW MEASUREMENT FOR THE STANDBY LIQUID CONTROL PUMPS
DUANE ARNOLD ENERGY CENTER
DOCKET NO. 50-331

1. Please provide isometric diagram of the standby liquid control (SBLC) System including details such as the length of piping and system components.
2. The licensee stated that portable ultra-sonic flow meters were installed on the common SBLC pump discharge piping to determine the practicality of using later technology ultra-sonic flow meters to measure flow. The flow meter transducers were installed at three different locations on the discharge piping. However, each location resulted in significantly different measured flow rates compared to the other locations and the test tank level method. Please provide the data on the measured flow rates at different locations using the ultra-sonic flow meters and compare them to those using the test tank level method.
3. Paragraph ISTB-3510(a) of the American Society of Mechanical Engineers Operation and Maintenance Code specifies that the flow rate determination shall be accurate to within ± 2 percent actual. Please provide the flow rate determination methodology that meets this Code requirement. Also, include the correlation curve conversion from test tank level to water volume.

ENCLOSURE

Duane Arnold Energy Center

cc:

Mr. J. A. Stall
Senior Vice President, Nuclear and Chief
Nuclear Officer
Florida Power & Light Company
P. O. Box 14000
Juno Beach, FL 33408-0420

Mr. M. S. Ross
Managing Attorney
Florida Power & Light Company
P. O. Box 14000
Juno Beach, FL 33408-0420

Mr. R. E. Helfrich
Senior Attorney
Florida Power & Light Company
P. O. Box 14000
Juno Beach, FL 33408-0420

Mr. W. E. Webster
Vice President, Nuclear Operations
Florida Power & Light Company
P. O. Box 14000
Juno Beach, FL 33408-0420

John Bjorseth
Site Director
Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324

Steven R. Catron
Manager, Regulatory Affairs
Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324

U. S. Nuclear Regulatory Commission
Resident Inspector's Office
Rural Route #1
Palo, IA 52324

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
Suite 210
2443 Warrenville Road
Lisle, IL 60532-4351

Mr. M. Warner
Vice President, Nuclear Operations
Support
Florida Power & Light Company
P. O. Box 14000
Juno Beach, FL 33408-0420

Mr. D. A. Curtland
Plant Manager
Duane Arnold Energy Center
3277 DAEC Rd.
Palo, IA 52324-9785

Mr. R. S. Kundalkar
Vice President, Nuclear Engineering
Florida Power & Light Company
P. O. Box 14000
Juno Beach, FL 33408-0420

Daniel McGhee
Utilities Division
Iowa Department of Commerce
Lucas Office Buildings, 5th Floor
Des Moines, IA 50319

Chairman, Linn County
Board of Supervisors
930 1st Street SW
Cedar Rapids, IA 52404