INSERVICE INSPECTION PLAN FOR THE FIRST TEN-YEAR INTERVAL AT BEAVER VALLEY POWER STATION UNIT #2 RELIEF REQUEST BV2-AUG-1, REV. 0

# SUBJECT: Reactor Vessel Lower Circumferential Weld (2RCS-REV21-C-4)

Prepared by: Donabali for RDB Supervisor, Nuclear Programs

Reviewed by: R.J. Cimoch

Date: 9/2/97

Date: 8/28/97

Date: 8.15.97

Reviewed by: BV-OSC-36-97 OSC

Approval by:

Reviewed by: <u>Review Package for Meeting 97-4</u> ORC

Konald 2 Lotha

Div. VP. Nuclear Operations / Flant Manager

Date: 9/26/97

Date: 9/10/97

Date: 10-2-92

9712030066 971124 PDR ADOCK 05000334

#### DUQUESNE LIGHT COMPANY

#### Beaver Valley Power Station Unit No. 2

# RELIEF REQUEST NO. BV2-RV-AUG-1, Rev. 0

# COMPONENT

Reactor Vessel Lower Head Circumferential Weld (2RCS-REV21-C-4)

#### DRAWING NO.

10080-ISI-E-1A

### AUGMENTED REQUIREMENT

10CFR50.55a(g)(6)(ii)(A) requires that examination requirements for reactor vessel shell weids specified in Iten: B1.10 of Examination Category B-A in Table IWB-2500-1 of subsection IWB of the 1989 Edition of Section XI be implemented as part of the current inspection interval.

#### BASIS OF RELIEF

In accordance with 10CFR50.55a(g)(6)(i), relief is requested on the basis that compliance with the Code requirement is impractical. The lower head to shell weld (2RCS-REV21-C-4) examination is limited due to the four core support lugs.

This weld was examined using automated techniques during the 2R06 refueling outage. Over eighty-nine percent (89%) of the required volume was examined. The four lugs are welded to the inside surface of the reactor vessel just above weld 2RCS-REV21-C-4

10CFR50.55a(g)(6)(ii)(A) defines "essentially 100%", for the purposes of the augmented examination, as more than 90 percent of the examination volume of each weld, where the reduction in coverage is due to interference by another component, or part geometry. To obtain the last 1% of the required volume would necessitate removal of one of the support lugs. Removal of a support lug for this purpose is considered impractical.

# PROPOSED ALTERNATIVE TO THE RULE

The alternative to the rule is to perform the examination to the maximum extent possible. This examination is supplemented by the visual examination performed on the interior of the vessel. The four support lugs are included in this examination. Therefore, the UT examination coupled with the visual examination of the support lugs and the surrounding areas provides an adequate measure of assurance of the integrity of this weld.