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SUBJECT: Forwards "Fracture Mechanics Analysis of Pressurizer Instrument Nozzle Flaws."

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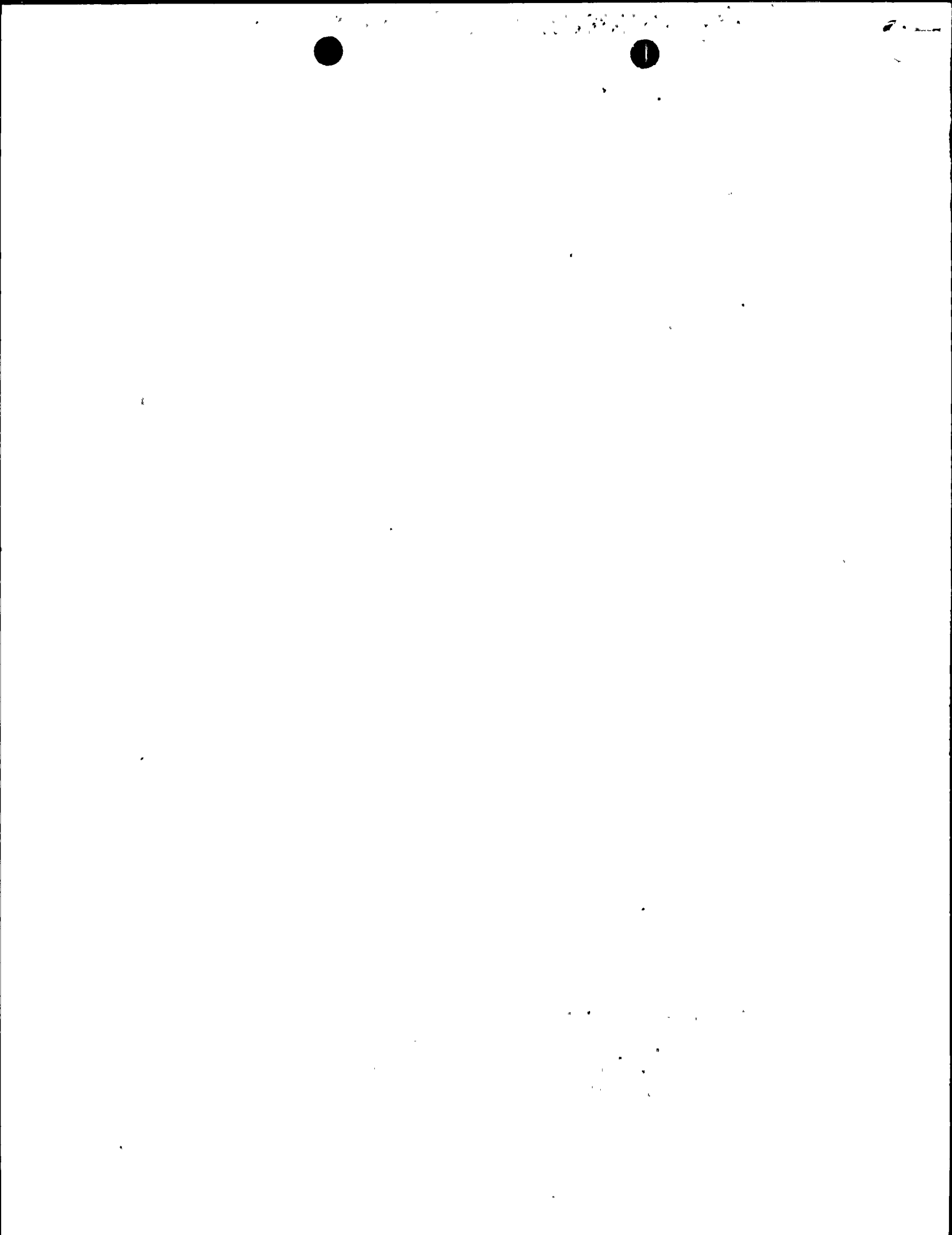
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L-94-074
10 CFR 50.55a

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

RE: St. Lucie Unit 2
Docket No. 50-389
Fracture Mechanics Analysis of
Pressurizer Instrument Nozzle Flaws

Pursuant to 10 CFR 50.55a(a)(3), Florida Power and Light Company requests approval of the enclosed Fracture Mechanics Analysis for the Unit 2 pressurizer instrument nozzle welds. The 1989 edition of the ASME Boiler and Pressure Vessel Code Section XI, IWB-3610(e) requires the licensee to submit evaluation procedures to the regulatory authority having jurisdiction for approval. In order to prevent delay of entry into operational Mode 4, approval is requested by April 4, 1994.

A drawing of the repair weld configuration (Enclosure 1) and a copy of the Fracture Mechanics Analysis for the Unit 2 pressurizer instrument nozzle welds (Enclosure 2) are enclosed. The report uses the methods of ASME Section XI Appendix A and conservative inputs and assumptions to conclude that the Unit 2 Pressurizer safety margins will be conservatively satisfied for the next operating cycle.

Please contact us if there are any questions about this submittal.

Very truly yours,

C. L. Burton for
D. A. Sager
Vice President
St. Lucie Plant

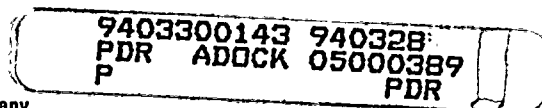
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Enclosures (2)

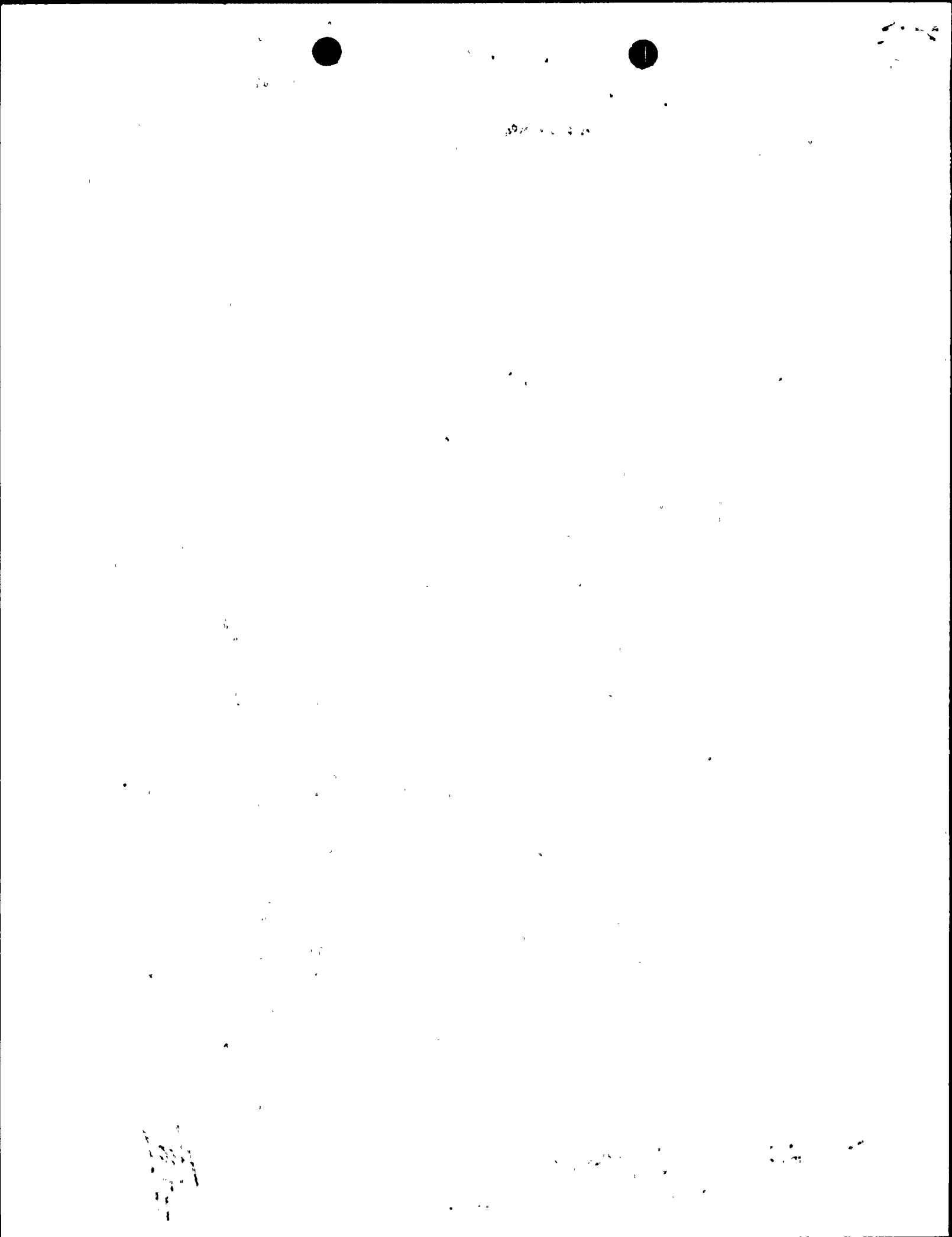
cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

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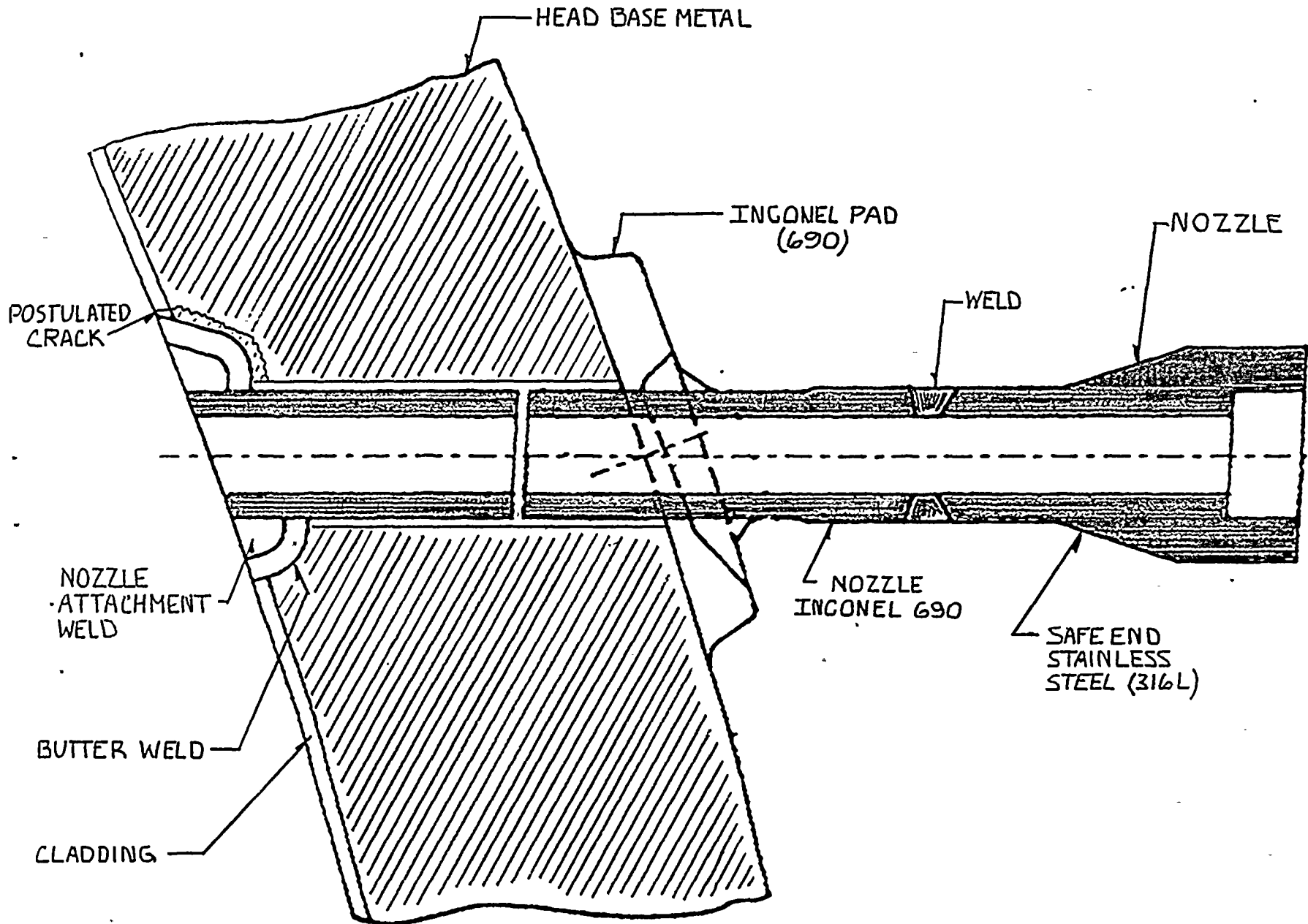
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MODIFIED UPPER PRESSURIZER NOZZLE DETAIL



ENCLOSURE 1