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50-388 SUSQUEHANNA STEAM ELECTRIC STATION, UNIT 2, PENNSYLVA 05000388
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RECIP.NAME RECIPIENT AFFILIATION
PARR,O.D. LIGHT WATER REACTORS BRANCH 3

SUBJECT: NOTIFIES OF PLANS TO REPLACE REACTOR PRESSURE VESSEL RECIRCULATION NOZZEL SAFE END & THERMAL SLEEVES.MOD AIMED AT INCREASING RELIABILITY & PROTECTION AGAINST INTERGANULAR STRESS CORROSION CRACKING.

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Docket Nos. 50-387
50-388

Mr. Olan D. Parr, Chief
Light Water Reactors Branch No. 3
Division of Project Management
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
RECIRCULATION RISER PIPING MODIFICATIONS FOR IGSCC
ER 100450 FILE 883
PLA-350

Dear Mr. Parr:

For your information Pennsylvania Power and Light Company is planning to replace the Reactor Pressure Vessel (RPV) Recirculation Nozzle Safe End and Thermal Sleeves on Unit #1 and #2. This replacement is in keeping with our previous design modifications aimed at increasing reliability and protection against Intergranular Stress Corrosion Cracking (IGSCC). This is a supplement to our previous documents PLA-291 and PLA-139.

A modified design of the thermal sleeve on the reactor recirculation piping inlet to the vessel has been proposed by General Electric NEBG and PP&L has elected to incorporate this change into the Susquehanna design. This change in design is basically an effort to provide a geometry which is more optimized for resistance to IGSCC. The attached sketches provide outlines of the old and new designs (Figure 1). The changes will be accomplished in accordance with ASME Section XI, 1974 Edition with addenda to and including the summer 1975 paragraph IWA-4100. The additional ASME codes used for this modification are:

(A) Section III, 1974 Edition including Summer 1976 Addenda
(B) Section IX, 1974 Edition including Summer 1976 Addenda
(C) Section V, 1974 Edition including Summer 1976 Addenda

All welders and welding operators will be qualified in accordance with the requirements of the ASME code. Appropriate procedures will be written for this installation. Unit #1 and #2 material for the replacement of safe ends and thermal sleeves will be Type 316L.

If you have any questions, please contact us.

Very truly yours,

N. W. Curtis/s

N. W. Curtis
Vice President-Engineering and Construction

B001
S F 1 1 1

CTC/thm
CC: Bob Gallo NRC

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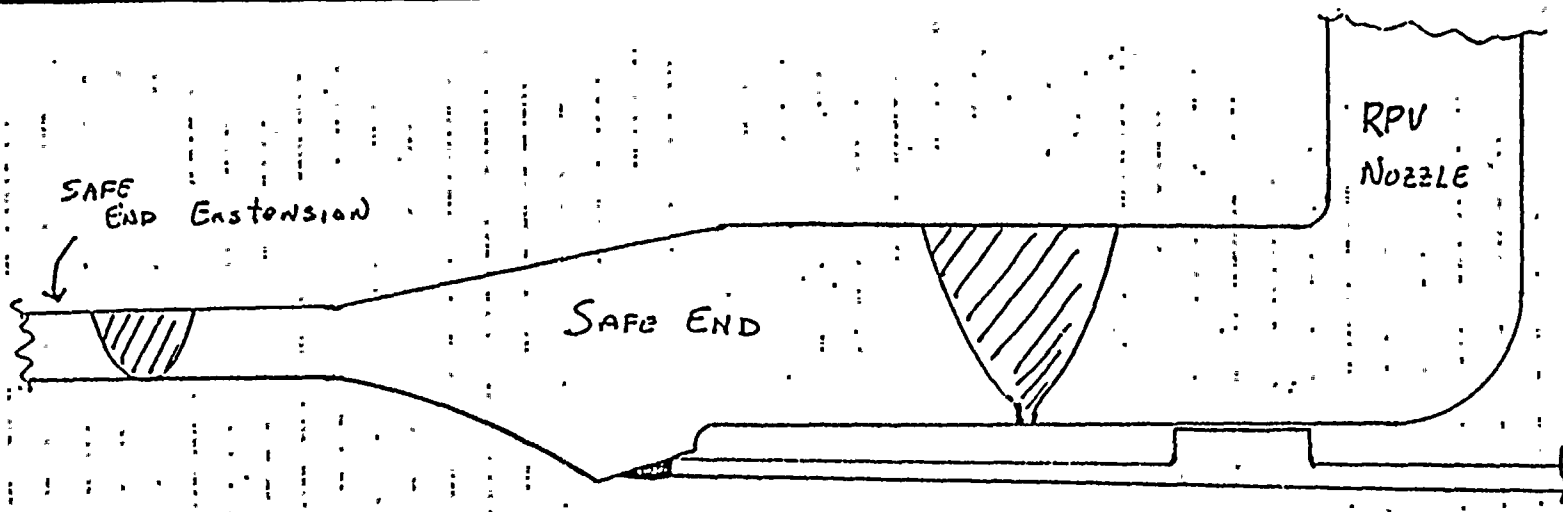
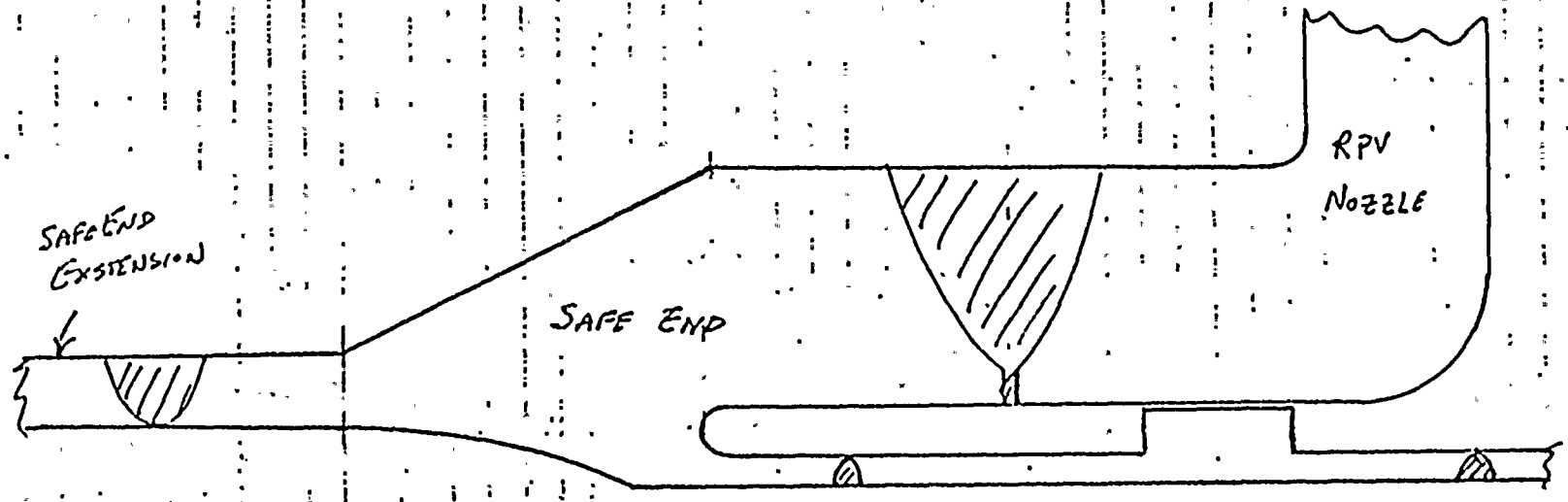


EXSISTING THERMAL SLEEVE

NOT TO SCALE



MODIFIED THERMAL SLEEVE

NOT TO SCALE

FIGURE 1