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 MATLOCK, R.G. Washington Public Power Supply System  
 RECIP. NAME RECIPIENT AFFILIATION  
 ENGELKEN, R.H. Region 5, San Francisco, Office of the Director

SUBJECT: Final rept re steam tunnel support box beams, initially reported on 801114. Concludes that condition is not reportable since beams are structurally sound to perform intended function.

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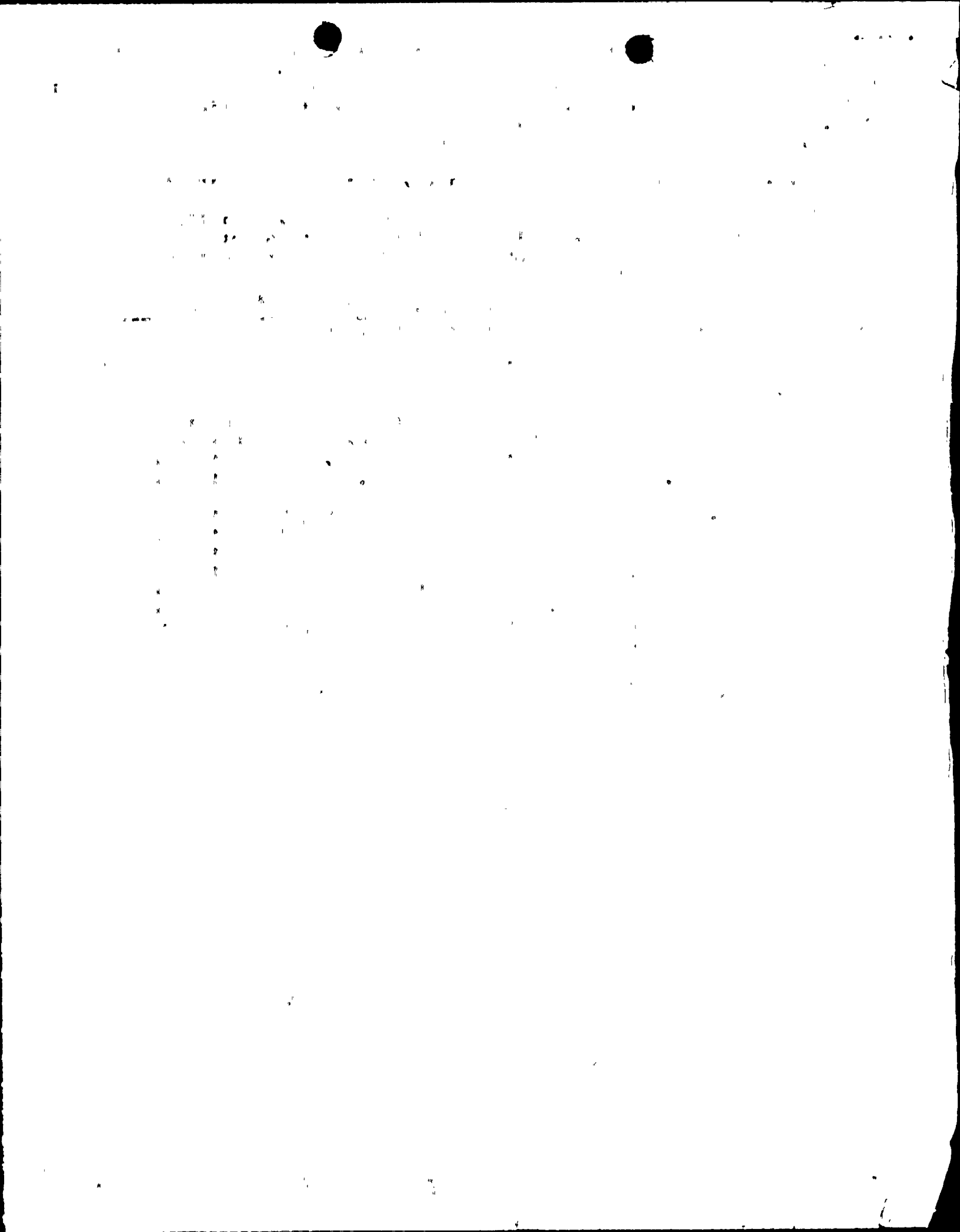
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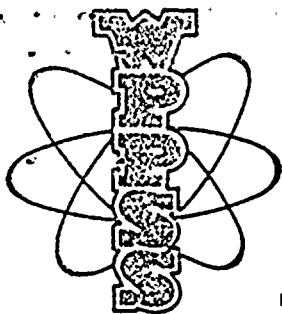
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March 27, 1981  
G02-81-66

Docket No. 50-397

U. S. Nuclear Regulatory Commission  
NRC Region V  
Suite 202, Walnut Creek Plaza  
1990 N. California Blvd.  
Walnut Creek, California 94596

Attention: Mr. R. H. Engelken  
Director

Subject: WPPSS NUCLEAR PROJECT NO. 2  
POTENTIALLY REPORTABLE CONDITION 10CFR50.55(e)  
STEAM TUNNEL SUPPORT BOX BEAMS



Dear Mr. Engelken:

Your staff was previously informed by telephone on November 14, 1980 of a "Potentially Reportable" condition regarding linear indications in the Steam Tunnel Support Box Beams. An interim report was submitted via our letter, G02-80-296, dated December 15, 1980.

Attached is our final report describing the evaluation of the condition. Our conclusion is that the subject condition is not reportable.

Please contact us if there are any questions.

Very truly yours,

*R. G. Matlock*  
R. G. Matlock  
Program Director, WNP-2

cph

Attachment: Final Report

cc w/att: V. Stello - NRC

AD Toth - NRC Resident Inspector  
RC Root - B&R Site  
TA Mangelsdorf - Bechtel Site  
RE Snaith - B&R  
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## Final Report

### POTENTIALLY REPORTABLE CONDITION WPPSS NUCLEAR PROJECT NO. 2 STEAM TUNNEL SUPPORT BOX BEAMS

WASHINGTON PUBLIC POWER SUPPLY SYSTEM  
DOCKET NO. 50-397  
LICENSE NO. CPPR-93

#### Potential Problem and Reference Notification

During field erection, linear indications were discovered in a double bevel web to flange weld. This weld is in a box beam for a pipe whip restraint in the main steam tunnel. Two beams were involved.

Depending on the size and location, such an indication could affect the load carrying capacity of the beam, which in turn could affect the performance of the pipe whip restraint.

The NRC was notified of this potential problem on November 14, 1980.

#### Approach to Resolution of the Problem

In order to evaluate the nature and extent of the indications, a physical destructive examination of one of the beams was performed.

This examination failed to show any further indications either visually or by M.T.

All other beams with similar weld configurations were examined thoroughly by U.T. A linear indication was found by this method in one of the beams.

#### Final Resolution

The results of examinations on all beams has shown only two general deficiencies, a linear indication of approximately 15" in the end of one beam and a slightly undersize weld due to lack of fusion in most of the welds of all beams.

The undersize weld problem has been satisfactorily resolved by examining the stress levels in the beams.



To examine the linear indication, a 2-inch thick piece was removed from the end of beam MK-321-B1. Two slag inclusions and a non-fusion type slag associated with the design non-fusion area between the vertical web and the flange were detected by both physical and liquid penetrant methods.

Because of their size (less than 1/16"), the two slag inclusions are not structurally significant. The defect associated with the design non-fusion area has been analyzed by the Burns and Roe Engineering Department. Based on the weld metal available at the web-flange joint, it has been established through analytical design that the joint is structurally sound and able to perform its intended function.

#### Conclusion

The condition is not reportable since the beams will still perform their intended function, with no effect on safety of operations during the expected life of the plant.

