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BOUCHEY, G.D. Washington Public Power Supply System
RECIP. NAME RECIPIENT AFFILIATION
SCHWENCER, A. Licensing Branch 2

SUBJECT: Advises that Section 14.2.14.3.17 will be amended to remove any ref to containment hot pipe penetration testing, SER Outstanding Issue 21 (NUREG-0892) closed w/o need for acceptance criteria. Diagrams re penetration assembly encl.

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over an 18 month period, as the Alaska, 1981 mortgage trust received a 100% interest distribution of the 1981 mortgage trust income for the year 1981. The Alaska, 1981 mortgage trust received a 100% interest distribution of the 1981 mortgage trust income for the year 1981.

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Washington Public Power Supply System

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October 4, 1982
G02-82-822

Docket No. 50-397

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
SAFETY EVALUATION REPORT, NUREG-0892,
OUTSTANDING ISSUE (21), CONTAINMENT
HOT PIPE PENETRATION TESTING; CLOSURE OF

Reference: Letter G02-82-83, G.D. Bouchey (SS) to
A. Schwencer (NRC), "Minutes of the NRC/
WNP-2 Meeting to Resolve Potential SER
Open Items from the Initial Test Program
(01/07/82)", dated January 19, 1982

The subject issue requests acceptance criteria for hot pipe penetration testing at WNP-2. During the meeting, described in the reference letter, the NRC provided a copy of a Grand Gulf (GG) commitment on this issue for the Supply System to evaluate and provide similar acceptance criteria specific to WNP-2.

The GG containment is a Mark III design in which process piping penetrates the concrete drywell wall (see Attachment #1). The drywell wall provides the boundary that forces steam, in the event of a loss of reactor coolant system integrity, into the suppression pool for primary containment pressure control. The concern at GG is concrete degradation of the drywell wall due to inadequate hot pipe penetration cooling. In order to satisfy the ASME B&PV code limit of 200°F, GG analytically determined the need for cooling fins to be added to selected hot pipe penetrations design. The issue at GG is clearly a concrete degradation problem, as the "drywell wall" was the area of concern.

WNP-2 is a Mark II containment design, employing a free-standing steel pressure vessel. The penetrations are a composite design consisting of a penetration nozzle, insulation, flued head fitting and the process pipe (see Attachment #2). The biological shield wall is penetrated through a pipe sleeve which provides no direct penetration support. The bio-shield wall also provides no support for the primary containment vessel. The primary

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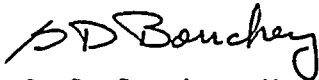
A. Schwencer
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containment penetrations at WNP-2 experience similar operating conditions as the containment and shield building wall at GG, and it is evident from the GG issue that the containment and shield building wall was of no concern. Therefore, the licensing concern at GG is not applicable to WNP-2. It is of significance to note that no other BWR has included this type of testing in the Power Ascension Testing Program and the issue at GG represents a plant specific issue.

Reg. Guide 1.68, Appendix A, Paragraph 5.W, includes shielding and penetration "cooling systems" performance testing. The WNP-2 penetration design does not employ a "cooling system"; therefore, Paragraph 5.W is not applicable. The WNP-2 containment and components therein are serviced by the drywell cooling system.

In view of the above, WNP-2 Section 14.2.14.3.17 will be amended to remove any reference of hot pipe penetration testing. Additionally, the Supply System considers SER Outstanding Issue #21 closed without need for acceptance criteria.

Very truly yours,

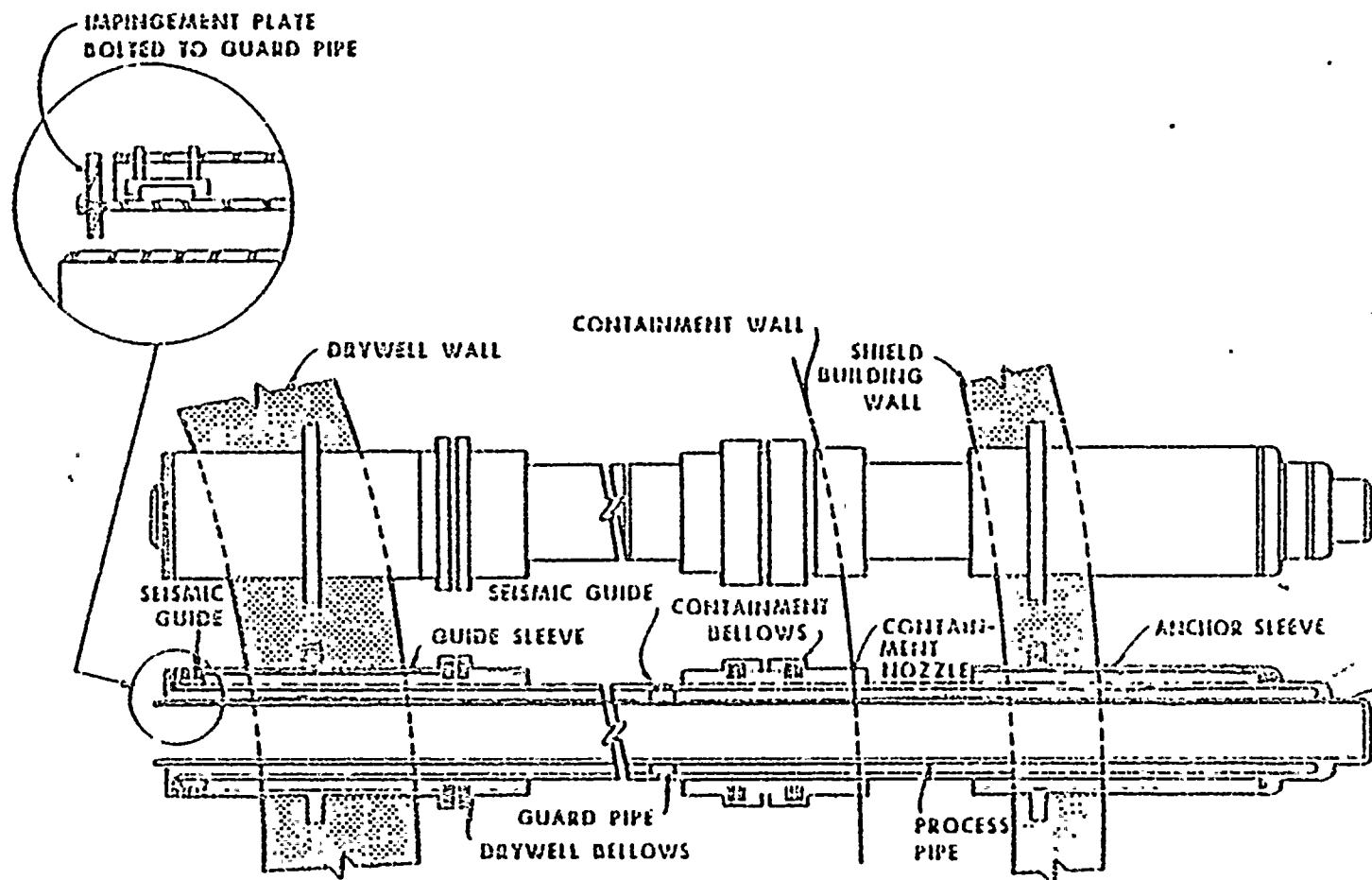


G. D. Bouchey, Manager
Nuclear Safety and Licensing

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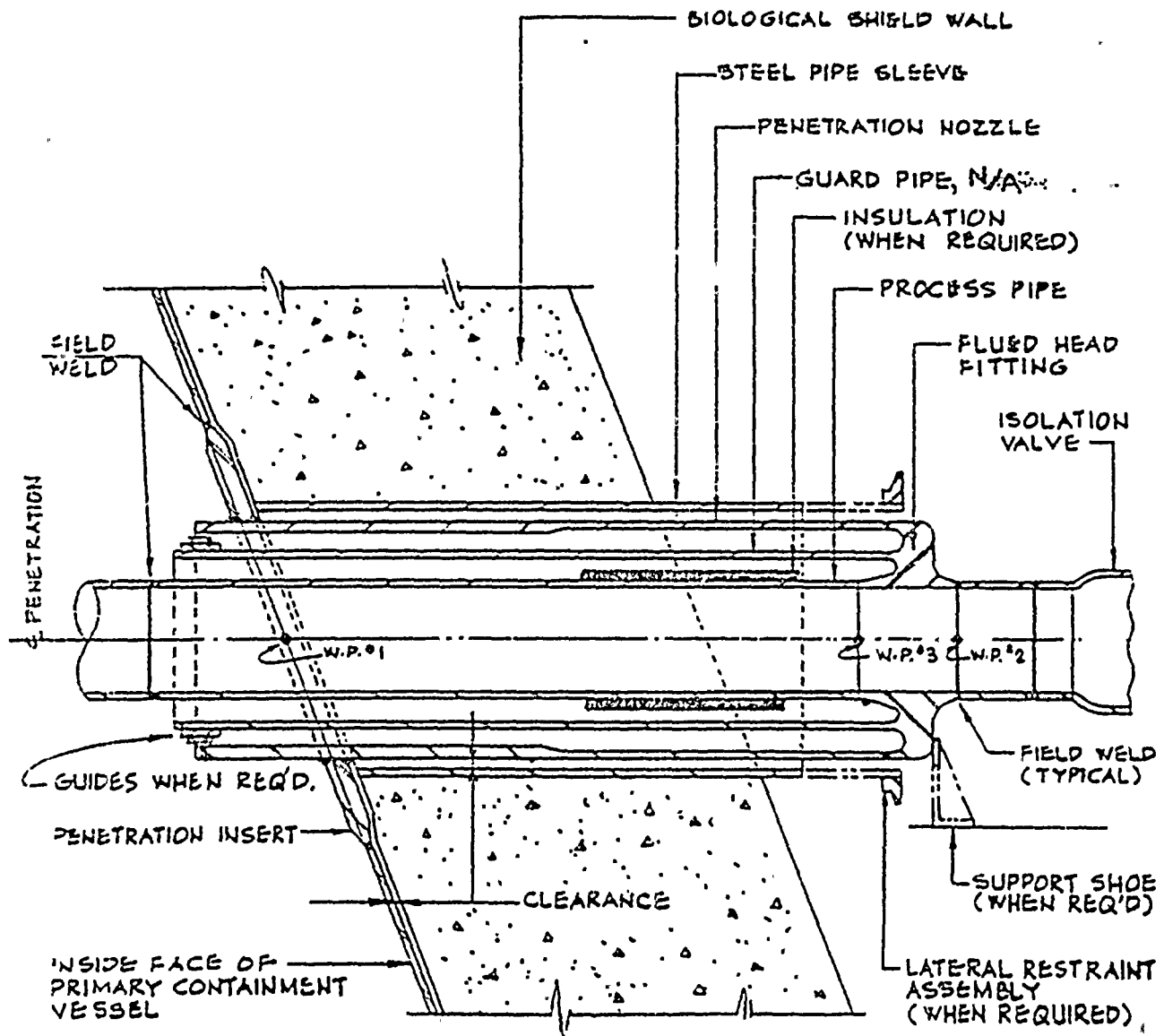
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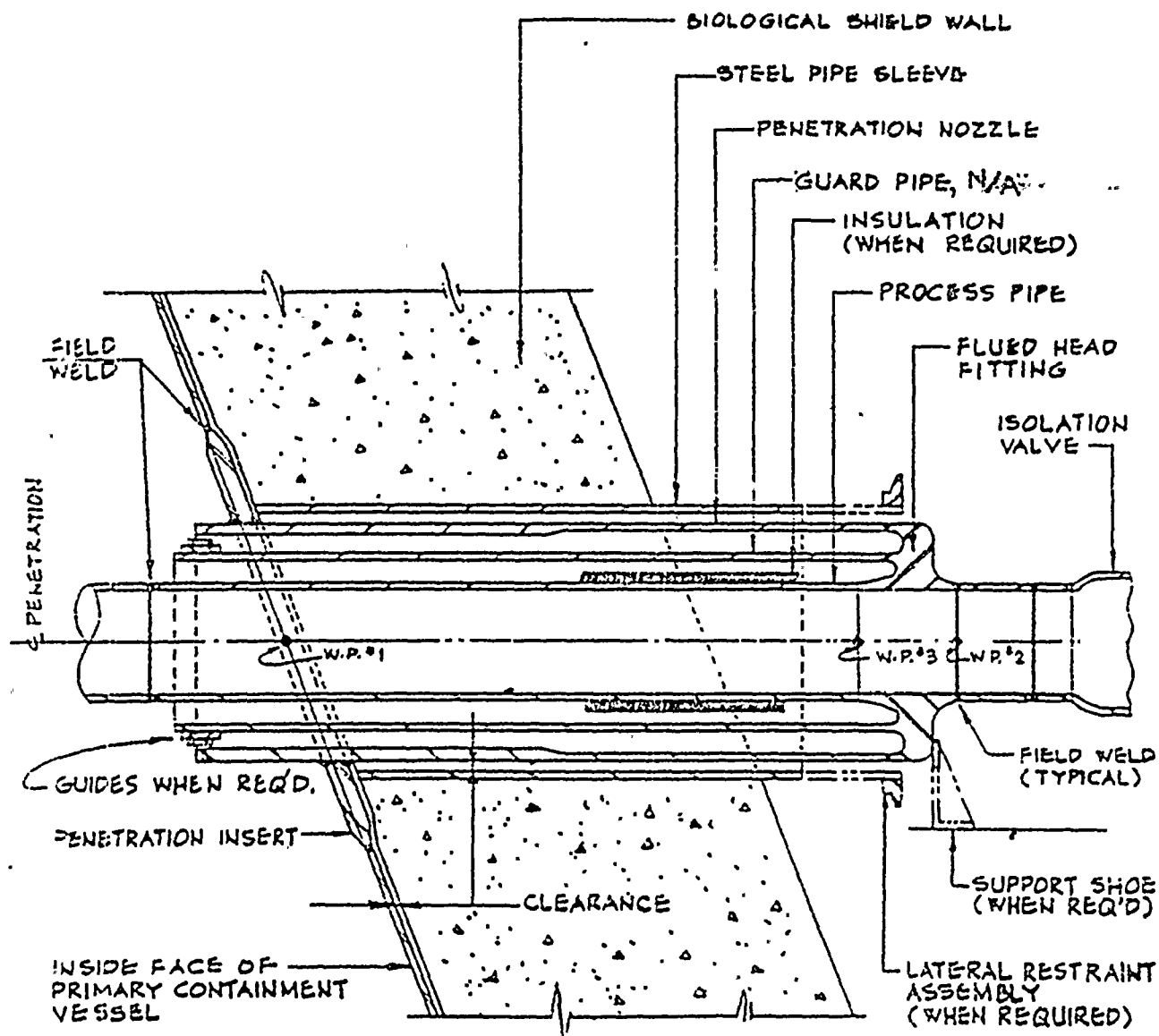
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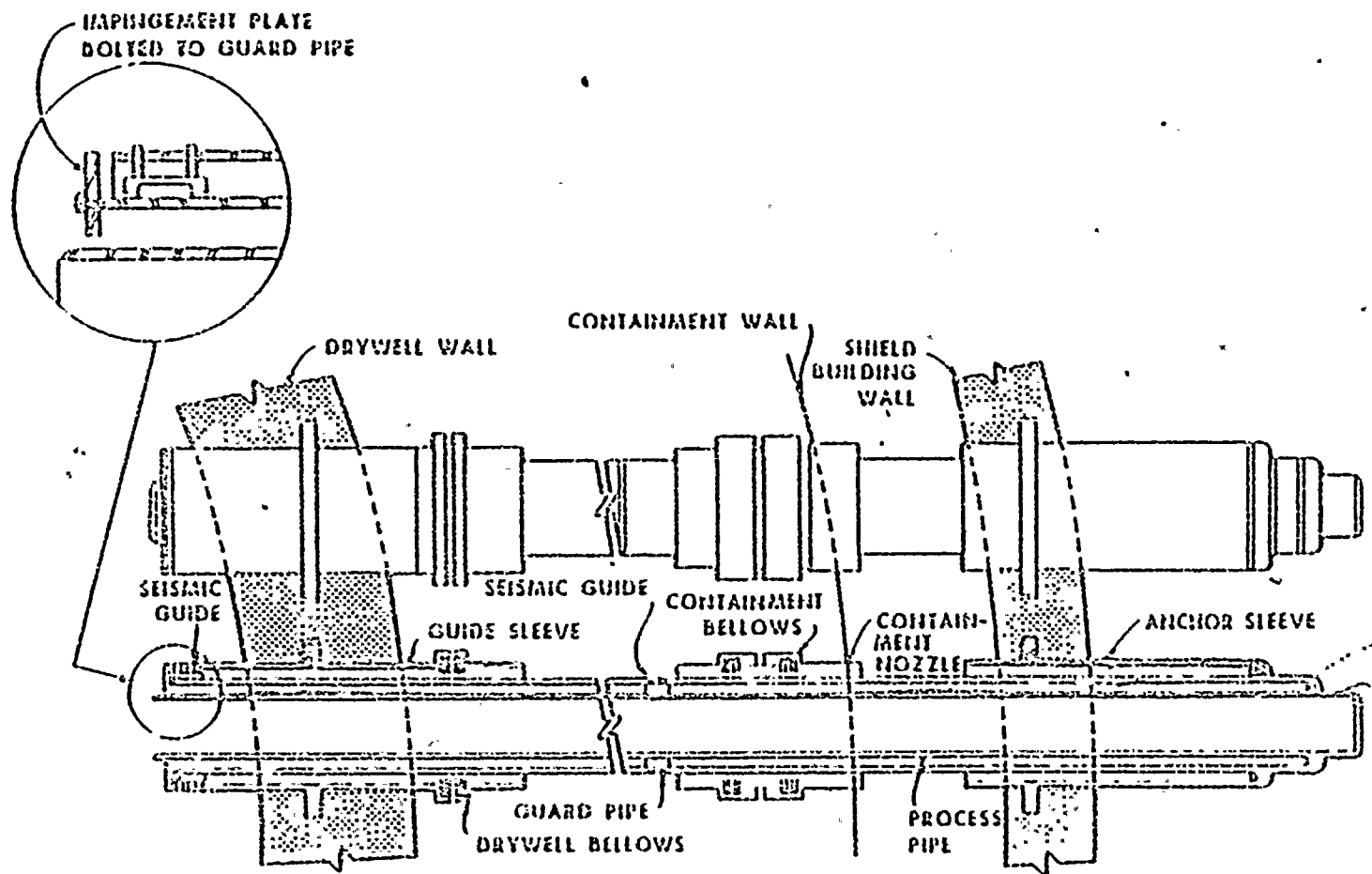


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Guard Pipe Assembly







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Guard Pipe Assembly

