



PSE&G Public Service
Electric and Gas
Company

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Robert L. Mittl General Manager
Nuclear Assurance and Regulation

July 31, 1985

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Bethesda, MD 20814

Attention: Mr. Walter Butler, Chief
Licensing Branch 2
Division of Licensing

Gentlemen:

VISUAL WELD ACCEPTANCE CRITERIA
HOPE CREEK GENERATING STATION
DOCKET NO. 50-354

Public Service Electric and Gas Company (PSE&G) hereby requests permission to adopt the provisions of Visual Weld Acceptance Criteria for Structural Welding at Nuclear Power Plants (VWAC) Revision 2. As recommended in the letter from J. P. Knight, NRC, to D. E. Dutton, Nuclear Construction Issues Group, Southern Company Services, attached for your review are the revised Hope Creek Generating Station FSAR pages documenting our request to commit to VWAC. It is also PSE&G's intention to follow the recommendations of the Nuclear Construction Issues Group in the preparation of a training program.

Should you have any questions in this regard, please contact us.

Very truly yours,

R L Mittl / R P Douglas

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Director of Nuclear
Reactor Regulation

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7/31/85

C D. H. Wagner
USNRC Licensing Project Manager

A. R. Blough
USNRC Senior Resident Inspector

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HCGS FSAR

3.8.3.6.3 Drywell Platforms

3.8.3.6.3.1 Materials

Materials used in construction of the drywell platforms include the following standard specifications:

<u>Item</u>	<u>Specification</u>
Structural shapes (less than 30 pounds per linear foot)	ASTM A36
Structural shapes (more than 30 pounds per linear foot)	ASTM A441 or ASTM A588
Box beams and built-up wide flange beams	ASTM A537, Class 1.

3.8.3.6.3.2 Welding

The drywell platforms are fabricated using welding procedures in accordance with the American Welding Society (AWS) Structural Welding Code D1.1. *(Table 3-8-7)*

See 

3.8.3.6.3.3 Nondestructive Examination

Nondestructive examination of welds for the drywell platforms, including radiographic examination, magnetic particle examination, ultrasonic examination, and liquid penetrant examination, is in accordance with Sections 6 and 8 of AWS D1.1.

3.8.3.6.3.4 Erection Tolerances

Erection tolerances for the drywell platforms are in accordance with the AISC specification. Actual deviation from the specification is evaluated in accordance with procedures covered in Chapter 17.

LIST OF APPLICABLE CODES, STANDARDS, RECOMMENDATIONS, AND SPECIFICATIONS

<u>Designation</u>	<u>Title</u>	<u>Edition(s)</u>
ACI	American Concrete Institute:	
318	Building Code Requirements for Reinforced Concrete	1971, with the 1974 supplement, including 1973 and 1974 revisions
531	Building Code Requirements for Concrete Masonry Structures	1979
AISI	American Iron and Steel Institute:	
	Specification for the Design of Light Gauge Cold-Formed Steel Structural Members	1968
AISC	American Institute of Steel Construction: Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings	February 12, 1969 with: Supplement 1 of Nov 1, 1970 Supplement 2 of Dec 8, 1971 and Supplement 3 of June 12, 1974
ANSI	American National Standards Institute:	
A58.1	Building Code Requirements for Minimum Design Loads in Buildings and Other Structures	1972
AREA	American Railway Engineering Association:	
	Manual for Railway Engineering (for possible future railway)	March 1972
ASME	American Society of Mechanical Engineers:	
	Boiler and Pressure Vessel Code	
Section II	Materials Specifications	1974 with Winter 1974 Addenda
Section III	Nuclear Power Plant Components	1974 with Winter 1974 Addenda
Section V	Nondestructive Examination	1974 with Winter 1974 Addenda
Section IX	Welding and Brazing Qualifications	1974 with Winter 1974 Addenda
Section XI	Inservice Inspection	1974 with Winter 1974 Addenda
AWS	American Welding Society:	
D 1.1	Structural Welding Code (See NCIG-01)	1975

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TABLE 3.8-7 (cont)

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Designation

Title

Edition⁽¹⁾

NML

Nuclear Mutual Limited:

Property Loss Prevention Standards

PCA

Portland Cement Association:

Design of Multistory Reinforced Concrete Buildings
for Earthquake Motions

1961

J.A. Blume, N.M. Newmark, and L.H. Corning

UBC

International Conference of Building Officials:

Uniform Building Code

1973

⁽¹⁾ Principle editions used are listed; later editions may be applied in specific cases.

NCIG-01

Nuclear Construction Issue Group
Visual Weld Acceptance Criteria

5/7/1985
(Rev.-2)

UL-5 850284833

TABLE 3.8-15

LIST OF APPLICABLE CODES, STANDARDS, RECOMMENDATIONS, AND SPECIFICATIONS

Designation	Title	Edition
<u>American Concrete Institute</u>		
ACI 211.1	Recommended Practice for Selecting Proportions for Normal and Heavyweight Concrete	1974
ACI 214	Recommended Practice for Evaluation of Compression Test Results of Field Concrete	1965
ACI 301	Specifications for Structural Concrete for Buildings	1972, 1973
ACI 304	Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete	1973
ACI 305	Recommended Practice for Hot Weather Concreting	1972
ACI 306	Recommended Practice for Cold Weather Concreting	1966
ACI 309	Recommended Practice for Consolidation of Concrete	1974
ACI 315	Manual of Standard Practice for Detailing Reinforcing Concrete Structures	1974
ACI 318	Building Code Requirements for Reinforced Concrete	1971
<u>American Welding Society</u>		
AWS D1.1	Structural Welding Code (See NCIG-01)	1975
AWS D12.1	Recommended Practice for Welding Reinforcing Steel and Connections in Reinforced Concrete Construction	1975
<u>U.S. Nuclear Regulatory Commission</u>		
RG 1.10	Mechanical (Cadmold) Splices in Reinforcing Bars of Category I Concrete Structures	Revision 1 Jan 1973
RG 1.15	Testing of Reinforcing Bars for Category I Concrete Structures	Revision 1 Dec 1972
RG 1.18	Structural Acceptance Test for Concrete Primary Reactor Containments	Revision 1 Dec 1972
RG 1.19	Nondestructive Examination of Primary Containment Liner Welds	Revision 1 Aug 1972

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TABLE 3.8-15 (cont)

<u>Designation</u>	<u>Title</u>	<u>Edition</u>
<u>American Institute of Steel Construction</u>		
AISC	Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings and Supplement Nos. 1, 2 and 3	1969
AISC	Code of Standard Practice for Steel Buildings and Bridges	1972
AISC	Specification for Structural Joints Using ASTM A 325 or A 490 Bolts	1966, 1972, and 1976
<u>American Society of Mechanical Engineers</u>		
ASME	ASME Boiler and Pressure Vessel Code, Sections II, III, V, VIII, and IX	1971 with Addenda through Summer 1972
<u>International Conference of Building Officials</u>		
UBC	Uniform Building Code	1973, 1976
<u>Building Officials and Code Administrators</u>		
BOCA	Basic Plumbing Code	1975

NCIG-01

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