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 AUTH. NAME AUTHOR AFFILIATION
 CONWAY, W.F. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Responds to NRC Bulletin 88-005 re nonconforming matls
 supplied by West Jersey Mfg Co or Piping Supply, Inc.

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SEPTEMBER 15 1988

L-88-413

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

Gentlemen:

Re: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
NRC Bulletin 88-05 Response

By the subject bulletin, the NRC Staff requested licensees to review purchasing documentation and provide a listing of all nonconforming material, material use disposition status, and justification of continued operation for all materials supplied by West Jersey Manufacturing Company or Piping Supply, Inc. This request was revised by Supplement 1 which limited the scope of the request to include only pipe fittings and flanges. Supplement 2 further revised the scope to temporarily suspend all field measurements, testing, records review, and preparation of justifications for continued operations by all full power licensees. This supplement also required a report of the results of record reviews, testing, and analysis performed as of the date of issue of Supplement 2. Pursuant to this request, attached is Florida Power & Light Company's response.

The documents provided with this submittal are as follows:

Attachment I: Description of Records Search and
Testing Method

Attachment II: St. Lucie Nuclear Plant Listing of Material
Testing as of August 3, 1988 and Test Results

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an FPL Group company

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Attachment III: Turkey Point Nuclear Plant Listing of
Material Tested as of August 3, 1988 and Test
Results

Should there be any questions regarding this information,
please contact us.

Very truly yours,



W. F. Conway
Senior Vice President - Nuclear

WFC/SDF/gp

Attachments

cc: Dr. J. Nelson Grace, Regional Administrator,
Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant
Senior Resident Inspector, USNRC, Turkey Point Plant

STATE OF FLORIDA)
) ss.
COUNTY OF PALM BEACH)

W. F. Conway being first duly sworn, deposes and says:

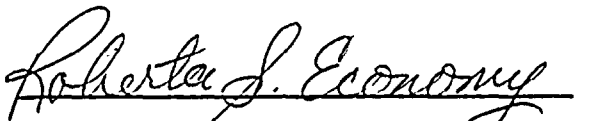
That he is Senior Vice President- Nuclear of Florida Power & Light Company,
the Licensee herein;

That he has executed the foregoing document; that the statements made in this
document are true and correct to the best of his knowledge, information, and
belief, and that he is authorized to execute the document on behalf of said
Licensee.



W. F. Conway

Subscribed and sworn to before me this
15 day of September, 1988.



NOTARY PUBLIC, in and for the County
of Palm Beach, State of Florida

My Commission expires: Notary Public, State of Florida
My Commission Expires June 1, 1989
Bonded Thru Troy Fain - Insurance, Inc.

ATTACHMENT I

DESCRIPTION OF RECORDS SEARCH AND TESTING METHOD

Upon receipt of Supplement 0, it was determined that neither West Jersey Manufacturing Company or Piping Supply, Inc. were or had ever been on Florida Power & Light Company's (FPL) Quality Assurance Approved Suppliers List, thus these vendors had never been used directly by FPL to purchase safety related material. It was, however, possible that FPL had received material from these vendors from other FPL approved suppliers. For this reason a program for the review of purchasing documents was established. Purchase orders, receipt inspection report documentation, spares warehouse purchase documentation, and plant change modification packages were reviewed for material that was supplied by or through the two suspect suppliers. This program, where possible, placed priority on the review of documents that purchased material for use in safety related and code class 1 or 2 applications. Once documentation of material purchased by or through one of the suspect vendors was found, the location of the material in the facility was prioritized by the intended use identified on the purchasing documentation.

Once located, the material was prepared and tested using EQUOTIP hardness equipment under the control of a corporate procedure which ensured compliance with FPL quality assurance procedures. Test results were reviewed and dispositioned for component acceptability under an approved Quality Instruction. As of the date of issue of Supplement 2, items in safety related systems which did not meet hardness specifications or where determined to be inaccessible for testing were analyzed and found to be acceptable for continued operation.

Upon receipt of Supplement 2, the identification and testing of components located in the facility was suspended as allowed.

ATTACHMENT II

ST. LUCIE PLANT NUCLEAR PLANT
LISTING OF MATERIAL TESTED AS OF AUGUST 3, 1988
AND TEST RESULTS

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material Type</u>	<u>Hardness BHN</u>	<u>Test Temp. Ambient/Actual</u>
3575	WJM	1/2"	600#	SA 105 RF SP	195 HB	80°
3575	WJM	1/2"	600#	SA 105 RF SP	180 HB	89°
3575	WJM	1/2"	600#	SA 105 RF SP	178 HB	89°
3575	WJM	1/2"	600#	SA 105 RF SP	186 HB	89°
3575	WJM	1/2"	600#	SA 105 RF SP	197 HB	89°
674X	WJM	4"	300#	SA 105 RF BL	181 HB	85°
674X	WJM	4"	300#	SA 105 RF BL	175 HB	85°
9774	WJM	4"	150#	SA 105 RF BL	168 HB	85°
TQ	WJM	4"	150#	SA 105 RF BL	162 HB	93°
TQ	WJM	4"	150#	SA 105 RF BL	167 HB	93°
CFY	PSI	4"	150#	SA 105 FF BL	153 HB	86°
CFY	PSI	4"	150#	SA 105 FF BL	138 HB	86°
VK	WJM	1 1/2"	150#	SA 105 RF SW	162 HB	81°
VK	WJM	1 1/2"	150#	SA 105 RF SW	151 HB	81°
VK	WJM	1 1/2"	150#	SA 105 RF SW	163 HB	82°
VK	WJM	1 1/2"	150#	SA 105 RF SW	157 HB	83°
VK	WJM	1 1/2"	150#	SA 105 RF SW	173 HB	83°
VK	WJM	1 1/2"	150#	SA 105 RF SW	167 HB	84°
VK	WJM	1 1/2"	150#	SA 105 RF SW	165 HB	84°
VK	WJM	1 1/2"	150#	SA 105 RF SW	162 HB	82°
VK	WJM	1 1/2"	150#	SA 105 RF SW	153 HB	83°
VK	WJM	1 1/2"	150#	SA 105 RF SW	167 HB	84°
VK	WJM	1 1/2"	150#	SA 105 RF SW	165 HB	84°
VK	WJM	1 1/2"	150#	SA 105 RF SW	162 HB	82°
VK	WJM	1 1/2"	150#	SA 105 RF SW	153 HB	83°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	180 HB	87°
9774	WJM	1 1/2"	150#	SA 105 RF BL	213 HB	85°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	185 HB	79°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	176 HB	84°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	193 HB	90°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	185 HB	87°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	185 HB	87°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	176 HB	84°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	208 HB	86°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	215 HB	84°
B5910	WJM	1 1/2"	150#	SA 105 RF SW	176 HB	84°
A4	WJM	2"	150#	SA 105 RF SW	185 HB	79°
T2603	WJM	3"	150#	SA 105 RF WN	180 HB	85°
B7X197	WJM	2 1/2"	150#	SA 105 FF WN	158 HB	78°
B7X197	WJM	2 1/2"	150#	SA 105 FF WN	157 HB	80°
04224	WJM	4"	150#	SA 105 FF WN	145 HB	79°
04224	WJM	4"	150#	SA 105 FF WN	164 HB	79°
04377	WJM	4"	150#	SA 105 FF SP	153 HB	79°
04377	WJM	4"	150#	SA 105 FF SP	150 HB	79°

St. Lucie Nuclear Plant List (con't)

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material</u> <u>Type</u>	<u>Hardness</u> <u>BHN</u>	<u>Test Temp.</u> <u>Ambient/Actual</u>
E1413	WJM	1"	150#	SA 105 RF SW	207 HB	87°
E1413	WJM	1"	150#	SA 105 RF SW	203 HB	86°
E1413	WJM	1"	150#	SA 105 RF SW	206 HB	85°
E1413	WJM	1"	150#	SA 105 RF SW	204 HB	79°
E1413	WJM	1"	150#	SA 105 RF SW	218 HB	80°
E1413	WJM	1"	150#	SA 105 RF SW	199 HB	80°
E1413	WJM	1"	150#	SA 105 RF SW	197 HB	82°
E1413	WJM	1"	150#	SA 105 RF SW	198 HB	85°
E1413	WJM	1"	150#	SA 105 RF SW	199 HB	85°
04224	WJM	4"	150#	SA 105 FF WN	142 HB	80°
04224	WJM	4"	150#	SA 105 FF WN	137 HB	80°
B7X197	WJM	2 1/2"	150#	SA 105 FF WN	153 HB	81°
B7X197	WJM	2 1/2"	150#	SA 105 FF WN	153 HB	81°
04377	WJM	4"	150#	SA 105 FF SP	167 HB	80°
04377	WJM	4"	150#	SA 105 FF SP	157 HB	80°
R6833	WJM	2"	150#	SA 105 RF WN	168 HB	79°
R6833	WJM	2"	150#	SA 105 RF WN	164 HB	80°
R6833	WJM	2"	150#	SA 105 RF WN	170 HB	82°
R6833	WJM	2"	150#	SA 105 RF WN	142 HB	86°
64C	WJM	3/4"	150#	SA 105 RF SW	184 HB	88°
64C	WJM	3/4"	150#	SA 105 RF SW	182 HB	88°
64C	WJM	3/4"	150#	SA 105 RF SW	180 HB	86°
E1413	WJM	1"	150#	SA 105 RF SW	207 HB	87°
03378	WJM	4"	150#	SA 105 RF SP	152 HB	86°
03378	WJM	4"	150#	SA 105 RF SP	152 HB	86°
H8509	WJM	30"	125#	SA 105 FF SP	149 HB	85°
H8509	WJM	30"	125#	SA 105 FF SP	155 HB	85°
H8509	WJM	30"	125#	SA 105 FF SP	149 HB	85°
4746	WJM	12"	300#	SA 105 RF WN	137 HB	82°

ATTACHMENT III

TURKEY POINT PLANT NUCLEAR PLANT
LISTING OF MATERIAL TESTED AS OF AUGUST 3, 1988
AND TEST RESULTS

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material Type</u>	<u>Hardness BHN</u>	<u>Test Temp. Ambient/Actual</u>
COX	PSI	3"	150#	A-105 FF WN	173	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	172	Ambient
COX	PSI	3"	150#	A-105 FF WN	172	Ambient
COX	PSI	3"	150#	A-105 FF WN	160	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	162	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	172	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	157	Ambient
COX	PSI	3"	150#	A-105 FF WN	168	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	172	Ambient
COX	PSI	3"	150#	A-105 FF WN	168	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	175	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	172	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	168	Ambient
COX	PSI	3"	150#	A-105 FF WN	157	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	181	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	162	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	162	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	175	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient

Turkey Point Nuclear Plant List (con't)

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material Type</u>	<u>Hardness BHN</u>	<u>Test Temp. Ambient/Actual</u>
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	160	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	162	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	165	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	600#	SA-105 FF WN	180	Ambient
COX	PSI	3"	150#	SA-105 FF WN	150	Ambient
COX	PSI	3"	150#	SA-105 FF WN	160	Ambient
COX	PSI	3"	150#	SA-105 FF WN	168	Ambient
COX	PSI	3"	150#	SA-105 FF WN	151	Ambient
COX	PSI	3"	150#	SA-105 FF WN	141	Ambient
COX	PSI	3"	150#	SA-105 FF WN	141	Ambient
COX	PSI	3"	150#	SA-105 FF WN	165	Ambient
COX	PSI	3"	150#	SA-105 FF WN	148	Ambient
COX	PSI	3"	150#	SA-105 FF WN	145	Ambient
COX	PSI	3"	150#	SA-105 FF WN	148	Ambient
COX	PSI	3"	150#	SA-105 FF WN	150	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient
COX	PSI	3"	150#	SA-105 FF WN	170	Ambient
COX	PSI	3"	150#	SA-105 FF WN	148	Ambient
COX	PSI	3"	150#	SA-105 FF WN	145	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient
COX	PSI	3"	150#	SA-105 FF WN	148	Ambient
COX	PSI	3"	150#	SA-105 FF WN	151	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient
COX	PSI	3"	150#	SA-105 FF WN	151	Ambient
COX	PSI	3"	150#	SA-105 FF WN	156	Ambient
COX	PSI	3"	150#	SA-105 FF WN	145	Ambient
COX	PSI	3"	150#	SA-105 FF WN	141	Ambient
COX	PSI	3"	150#	SA-105 FF WN	156	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient
COX	PSI	3"	150#	SA-105 FF WN	164	Ambient
COX	PSI	3"	150#	SA-105 FF WN	148	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient

Turkey Point Nuclear Plant List (con't)

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material Type</u>	<u>Hardness BHN</u>	<u>Test Temp. Ambient/Actual</u>
COX	PSI	3"	150#	SA-105 FF WN	156	Ambient
COX	PSI	3"	150#	SA-105 FF WN	156	Ambient
COX	PSI	3"	150#	SA-105 FF WN	165	Ambient
COX	PSI	3"	150#	SA-105 FF WN	153	Ambient
COX	PSI	3"	150#	SA-105 FF WN	151	Ambient
COX	PSI	3"	150#	SA-105 FF WN	141	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient
COX	PSI	3"	150#	SA-105 FF WN	148	Ambient
COX	PSI	3"	150#	SA-105 FF WN	156	Ambient
COX	PSI	3"	150#	SA-105 FF WN	154	Ambient
COX	PSI	3"	150#	SA-105 FF WN	141	Ambient
COX	PSI	3"	150#	SA-105 FF WN	150	Ambient
COX	PSI	3"	150#	SA-105 FF WN	159	Ambient
COX	PSI	3"	150#	SA-105 FF WN	145	Ambient
COX	PSI	3"	150#	SA-105 FF WN	153	Ambient
COX	PSI	3"	150#	SA-105 FF WN	157	Ambient
COX	PSI	3"	150#	SA-105 FF WN	140	Ambient
COX	PSI	3"	150#	SA-105 FF WN	147	Ambient
COX	PSI	3"	150#	SA-105 FF WN	145	Ambient
COX	PSI	3"	150#	SA-105 FF WN	147	Ambient
COX	PSI	3"	150#	SA-105 FF WN	147	Ambient
COX	PSI	3"	150#	SA-105 FF WN	138	Ambient
COX	PSI	3"	150#	SA-105 FF WN	145	Ambient
COX	PSI	3"	150#	SA-105 FF WN	144	Ambient
COX	PSI	3"	150#	SA-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	160	Ambient
COX	PSI	3"	150#	A-105 FF WN	143	Ambient
COX	PSI	3"	150#	A-105 FF WN	141	Ambient
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	147	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	141	Ambient
COX	PSI	3"	150#	A-105 FF WN	150	Ambient
COX	PSI	3"	150#	A-105 FF WN	147	Ambient
COX	PSI	3"	150#	A-105 FF WN	147	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	168	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	153	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	147	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient

Turkey Point Nuclear Plant List (con't)

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material Type</u>	<u>Hardness BHN</u>	<u>Test Temp. Ambient/Actual</u>
COX	PSI	3"	150#	A-105 FF WN	176	Ambient
COX	PSI	3"	150#	A-105 FF WN	167	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	150	Ambient
COX	PSI	3"	150#	A-105 FF WN	147	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	141	Ambient
COX	PSI	3"	150#	A-105 FF WN	150	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	141	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	148	Ambient
COX	PSI	3"	150#	A-105 FF WN	148	Ambient
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	164	Ambient
COX	PSI	3"	150#	A-105 FF WN	162	Ambient
COX	PSI	3"	150#	A-105 FF WN	156	Ambient
COX	PSI	3"	150#	A-105 FF WN	154	Ambient
COX	PSI	3"	150#	A-105 FF WN	150	Ambient
COX	PSI	3"	150#	A-105 FF WN	144	Ambient
COX	PSI	3"	150#	A-105 FF WN	150	Ambient
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	170	Ambient
COX	PSI	3"	150#	A-105 FF WN	150	Ambient
COX	PSI	3"	150#	A-105 FF WN	151	Ambient
COX	PSI	3"	150#	A-105 FF WN	148	Ambient
COX	PSI	3"	150#	A-105 FF WN	144	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	147	Ambient
COX	PSI	3"	150#	A-105 FF WN	159	Ambient
COX	PSI	3"	150#	A-105 FF WN	144	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	145	Ambient
COX	PSI	3"	150#	A-105 FF WN	137	Ambient
COX	PSI	3"	150#	A-105 FF WN	140	Ambient
COX	PSI	3"	150#	A-105 FF WN	148	Ambient
COX	PSI	3"	150#	A-105 FF WN	157	Ambient

Turkey Point Nuclear Plant List (con't)

<u>Heat</u>	<u>Supplier</u>	<u>Size</u>	<u>Rating</u>	<u>Material Type</u>	<u>Hardness BHN</u>	<u>Test Temp. Ambient/Actual</u>
COP	WJM	2"	600#	SA-105 RF SW	126	Ambient
COP	WJM	2"	600#	SA-105 RF SW	178	Ambient
COP	WJM	2"	600#	SA-105 RF SW	134	Ambient
COP	WJM	2"	600#	SA-105 RF SW	127	Ambient
COP	WJM	2"	600#	SA-105 RF SW	127	Ambient
COP	WJM	2"	600#	SA-105 RF SW	131	Ambient
COP	WJM	2"	600#	SA-105 RF SW	137	Ambient
COP	WJM	2"	600#	SA-105 RF SW	141	Ambient
COP	WJM	2"	600#	SA-105 RF SW	145	Ambient
COP	WJM	2"	600#	SA-105 RF SW	178	Ambient
COP	WJM	2"	600#	SA-105 RF SW	172	Ambient
COP	WJM	2"	600#	SA-105 RF SW	145	Ambient
COP	WJM	2"	600#	SA-105 RF SW	137	Ambient
COP	WJM	2"	600#	SA-105 RF SW	126	Ambient
COP	WJM	2"	600#	SA-105 RF SW	150	Ambient
COP	WJM	2"	600#	SA-105 RF SW	125	Ambient
COP	WJM	2"	600#	SA-105 RF SW	138	Ambient
COP	WJM	2"	600#	SA-105 RF SW	140	Ambient
COP	WJM	2"	600#	SA-105 RF SW	125	163°F
COP	WJM	2"	600#	SA-105 RF SW	116	214°F
COP	WJM	2"	600#	SA-105 RF SW	127	Ambient
COP	WJM	2"	600#	SA-105 RF SW	123	Ambient
COP	WJM	2"	600#	SA-105 RF SW	176	Ambient
COP	WJM	2"	600#	SA-105 RF SW	130	Ambient
7559	WJM	4"	900#	A-105 RF WN	145	Ambient
7559	WJM	4"	900#	A-105 RF WN	144	Ambient
7559	WJM	4"	900#	A-105 RF WN	136	Ambient
7559	WJM	4"	900#	A-105 RF WN	138	Ambient
7559	WJM	4"	900#	A-105 RF WN	134	Ambient
7559	WJM	4"	900#	A-105 RF WN	137	Ambient
7559	WJM	4"	900#	A-105 RF WN	141	Ambient
7559	WJM	4"	900#	A-105 RF WN	136	Ambient
7559	WJM	4"	900#	A-105 RF WN	131	Ambient
7559	WJM	4"	900#	A-105 RF WN	141	Ambient
7559	WJM	4"	900#	A-105 RF WN	124	Ambient
7559	WJM	4"	900#	A-105 RF WN	123	Ambient
7559	WJM	4"	900#	SA-105 RF WN	156	100°
7559	WJM	4"	900#	SA-105 RF WN	140	100°
3S1053	WJM	8"	150#	SA-105 RF WN	177	Ambient
*UK	UK	30"	125#	A-105 FF SO	158	Ambient
*UK	UK	30"	125#	A-105 FF SO	162	Ambient
*UK	UK	30"	125#	A-105 FF SO	157	Ambient
*UK	UK	30"	125#	A-105 FF SO	166	Ambient

*UK = Unknown

Four Additional 30" Flanges were tested and treated as suspect material
supplied by WJM or PSI