

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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DOCKET #  
05000270

SUBJECT: Forwards Relief Request 92-05, requesting relief from ASME  
 Boiler & Pressure Vessel Code Section XI for Unit 2 Core  
 Flood pressure retaining tie-in welds due to impracticality  
 of inservice insp. W/one oversize drawing.

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*MPG*

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**DUKE POWER**

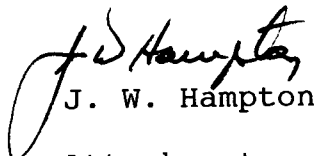
March 2, 1992

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Subject: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287  
Second Ten Year Interval  
Request for Relief No. 92-05

Pursuant to 10 CFR 50.55a, please find the attached request for relief number 92-05 from the requirements of Section XI of the ASME Boiler and Pressure Vessel Code (with Addenda through Winter 1980). This request is being submitted due to the impracticality of inservice inspection as required by the code. The attached request concerns the inservice inspection being performed during the second ten year interval. I am requesting approval on this request as soon as possible.

Very truly yours,

  
J. W. Hampton

Attachments

rr9205

xc: Mr. S. D. Ebnetter  
Regional Administrator, Region II

Mr. Heyward Shealy, Chief  
Bureau of Radiological Health, SC

Mr. L. A. Wiens  
Project Manager, ONRR

Mr. P. E. Harmon  
Senior Resident Inspector, ONS

9203120120 920302  
PDR ADOCK 05000270  
Q PDR

AD47

Duke Power Company  
Oconee Nuclear Station  
Second Ten Year Interval  
Request for Relief No. 92-05

I. Component for Which Relief is Requested:

(a) Name and Number:

Unit 2 Core Flood pressure retaining tie-in welds associated with 2CF-20 and 2CF-22, Core Flood Tank Drain Line Block Valves

(b) Function:

Valves through which Core Flood Tanks A & B can be drained for maintenance.

(c) ASME Code Class:

ISI Class B, Duke Class B

(d) IWV-2200 Valve Category:

N/A

II. Reference Code Requirement that has been Determined to be Impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) Article IWA-5211(d) which requires that the pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed to detect leakages may be conducted in conjunction with a system hydrostatic test during a plant shutdown at a pressure above nominal operation pressure or system pressure for which overpressure protection is provided; and Article IWC 5210(2) which requires a system hydrostatic pressure test for each system or portions of systems and for repaired or replaced components, or altered portion of systems.

III. Basis for Requesting Relief:

During implementation of NSM 22853, valves 2CF-20 and 2CF-22 were replaced. In order to perform hydrostatic tests of these tie-in welds as required by code, both Core Flood Tanks along with associated non-isolable piping would require being filled with demineralized water in excess of 2800 Cu.Ft. We propose that it is impractical to hydro the 2A and 2B Core Flood Tanks to allow for these hydrostatic tests since the information gained would not be time, cost or dose effective.

IV. Alternate Examination:

Inspect welds (shown on Sheets II and III of III attached) at normal operating pressure and perform an alternate non destructive examination (PT) in lieu of hydrostatic test. Normal operating pressure (NOP) of the Core Flood Tanks is  $600 \pm 25$  psig. Design pressure is 700 psig. See also attached OFD 102A-2.3.

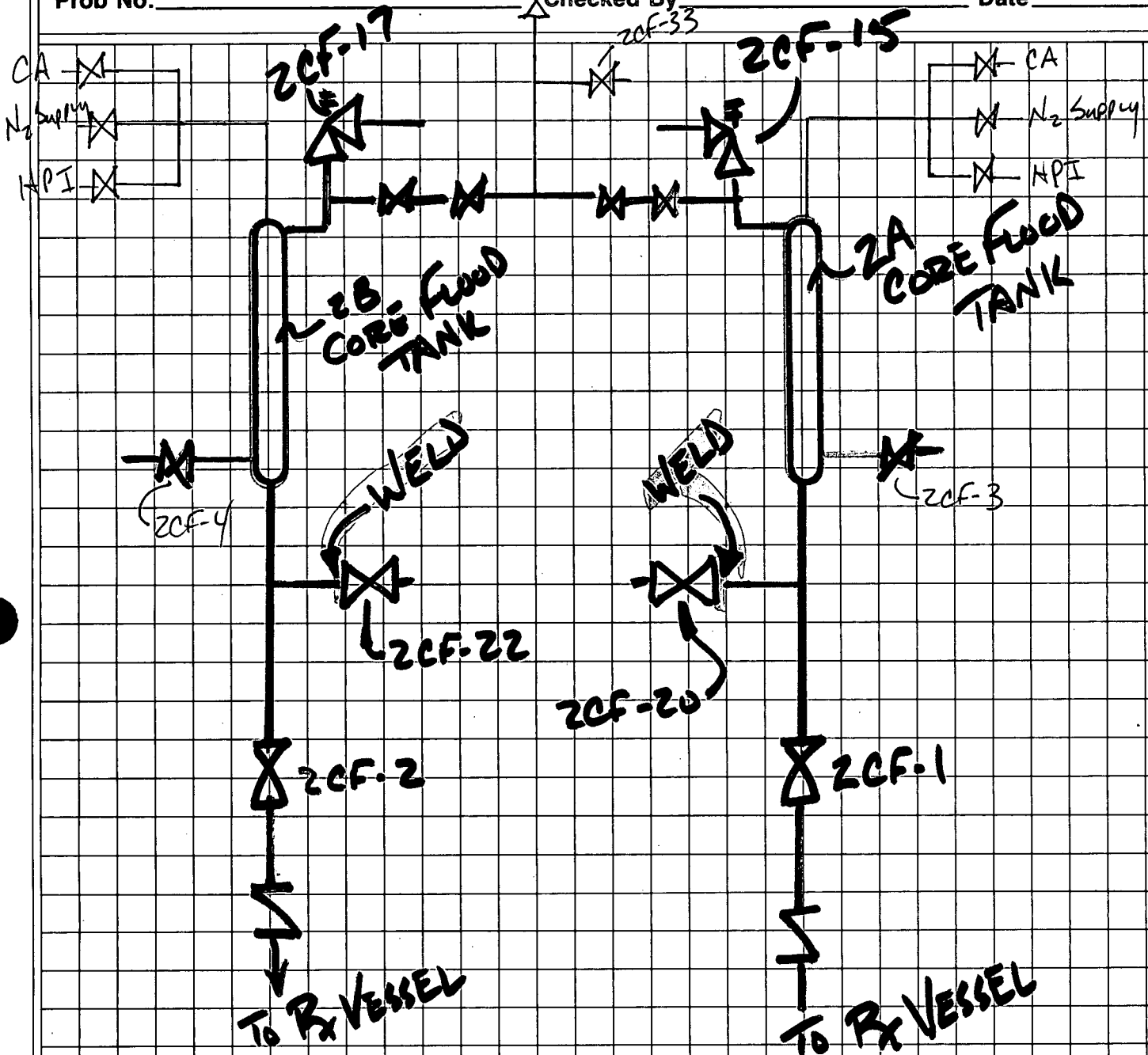
V. Evaluation of Acceptability of Proposed Alternate Testing with Respect to the Level of Quality and Safety as well as Public Health and Safety:

An inservice or system leakage test per IWA-5211(a) (described as a system leakage test conducted following opening and reclosing of a component in the system after pressurization to normal operating pressure) and surface examination of the welds (PT) will result in assurance of integrity of the new welds comparable to information gained by performing a hydrostatic test. The health and safety of the public and the safety of the system is not adversely affected by the alternate testing.

V. Implementation Schedule:

End of Cycle 12 refueling outage. February-March, 1992.

Station \_\_\_\_\_ Unit \_\_\_\_\_ Rev. \_\_\_\_\_ File No. \_\_\_\_\_ Sheet \_\_\_\_\_ Of \_\_\_\_\_  
Subject NSM 22853 - CF TIE-IN WELDS REQUEST FOR RELIEF  
By TW Date 2-19-92  
Prob No. \_\_\_\_\_ Checked By \_\_\_\_\_ Date \_\_\_\_\_



REF OFD-102A-2.3

# SYSTEM 53A(1)(3)(5)(6)(7) UNIT 2 R.B. CLASS A,B,C,E CRES/304H, 316H SHEET 8

PS.601.2 PS.6014

PS.1501.3

831.1

\* ATTACH. WELDS: 48A, 32Z, 42Z, 42ZA

PS.1501.4

831.1

REACTOR VESSEL

CLASS B - 100% RT ALL BUTT WELDS. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH WELDS. NOTE: ANY WELD 1" AND LESS IN DIAMETER IS CLASS C OR E.

## PART II OF III

CLASS A - 100% RT AND 100% MT/PT ALL BUTT WELDS. 100% RT & 100% MT/PT ALL BRANCH CONNECTIONS OVER 4" DIAMETER. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH CONNECTION WELDS.

CLASS C & E - RT 1 WELD FOR EVERY 10 BUTT WELDS A WELDER MAKES OVER 4" DIAMETER. 1 WELD FOR EVERY 10 FILLET, SOCKET, SEAL, ATTACHMENT, OR BRANCH WELDS A WELDER MAKES OVER 4" DIAMETER.

{ SYSTEM 53A(1) CRES/316H  
49,50,63 14"φX1.250" (CLASS A) } "1" NOT CODE

{ SYSTEM 53A(3) CRES/304H  
32,59-61,42-48,42A 14"φX1.250" (CLASS A) } "1"  
32A-32C (CLASS A NDT) 1"φX.250" (CLASS C) } "1"

{ SYSTEM 53A(5) CRES/304H  
34-36 14"φX1.250" (CLASS B) } "5"  
85,90,93,95,100,102,105 1"φX.250" (CLASS C) } "0"  
85 NDT CODE "6"

{ SYSTEM 53A(6) CRES/304H  
31 10"φX1.000 (CLASS A) } "1"

{ SYSTEM 53A(7) CRES/304H  
39,40,37,39A 14"φX.375" (CLASS B) } "5"  
126 2"φX.154" (CLASS B) } "6"  
121, 124,125 1"φX.250 (CLASS E)  
124,125 2"X.154 (CLASS E)

ONLY

| ISO. REV. NO.  | CHANGES  | WELD NOS. |
|----------------|--|-----------|
| 241            | 101A, 102B, 103B   |           |
| TS 60.91077988 | 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 |           |

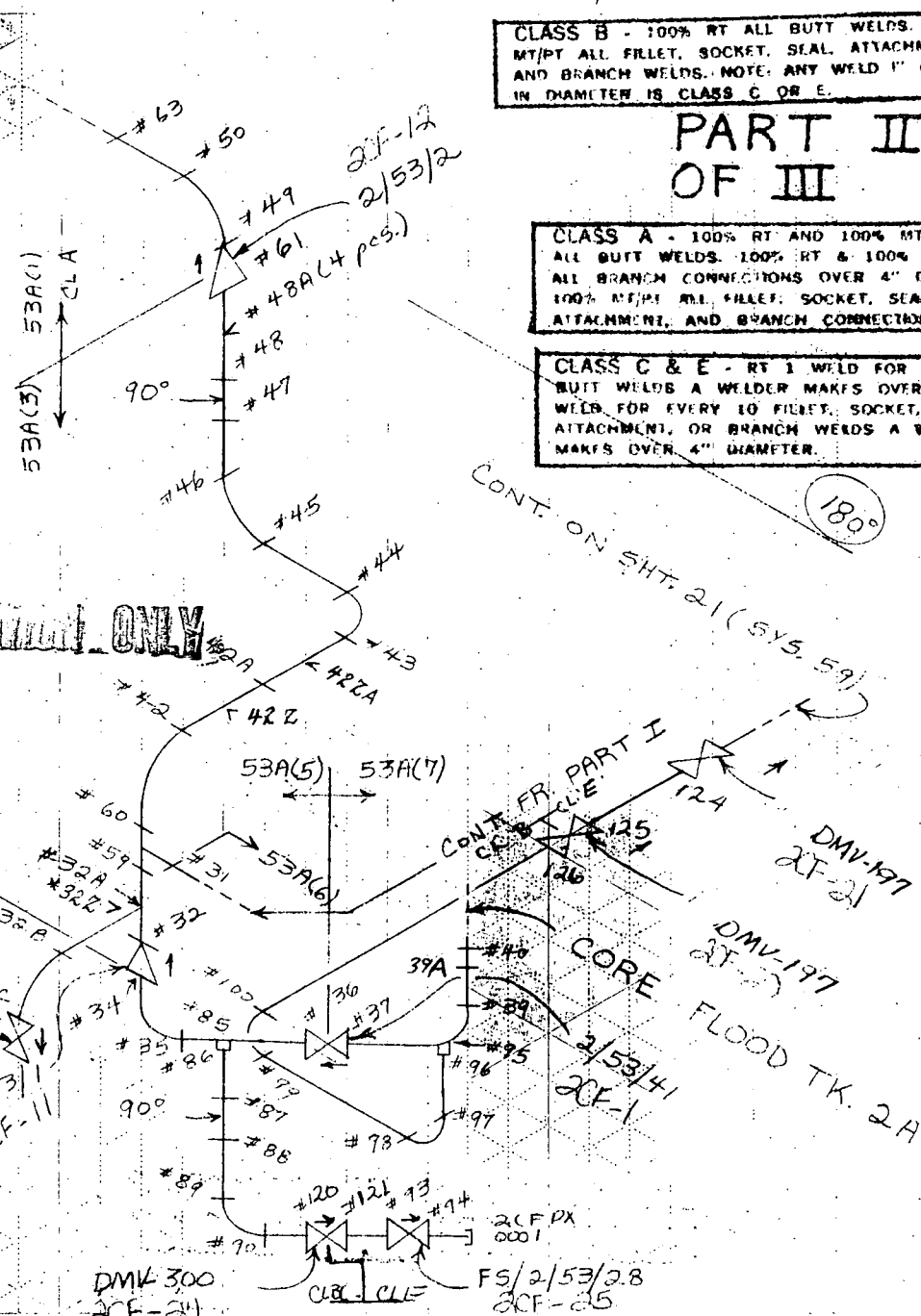
14"10" φ VWP P.2

OTHER W. 1 & P.8

REF. DWGS. 1478A,B, 1479D

\*Note: Attachment Weld 32Z is made over weld 32A

D.L.A. Rev. 15 OK Eng H.L. 75 JAN 72



28/2

NOTE: ALL WELDS PRECEDED BY (8)  
 AST WELD: 8-129  
 L231 H. ELLENBORG  
 304 316

SYSTEM 53A(1)(3)(5)(6)(7) UNIT 2 R.B. CLASS A,B,C,E CRES/304;316H SHEET 8

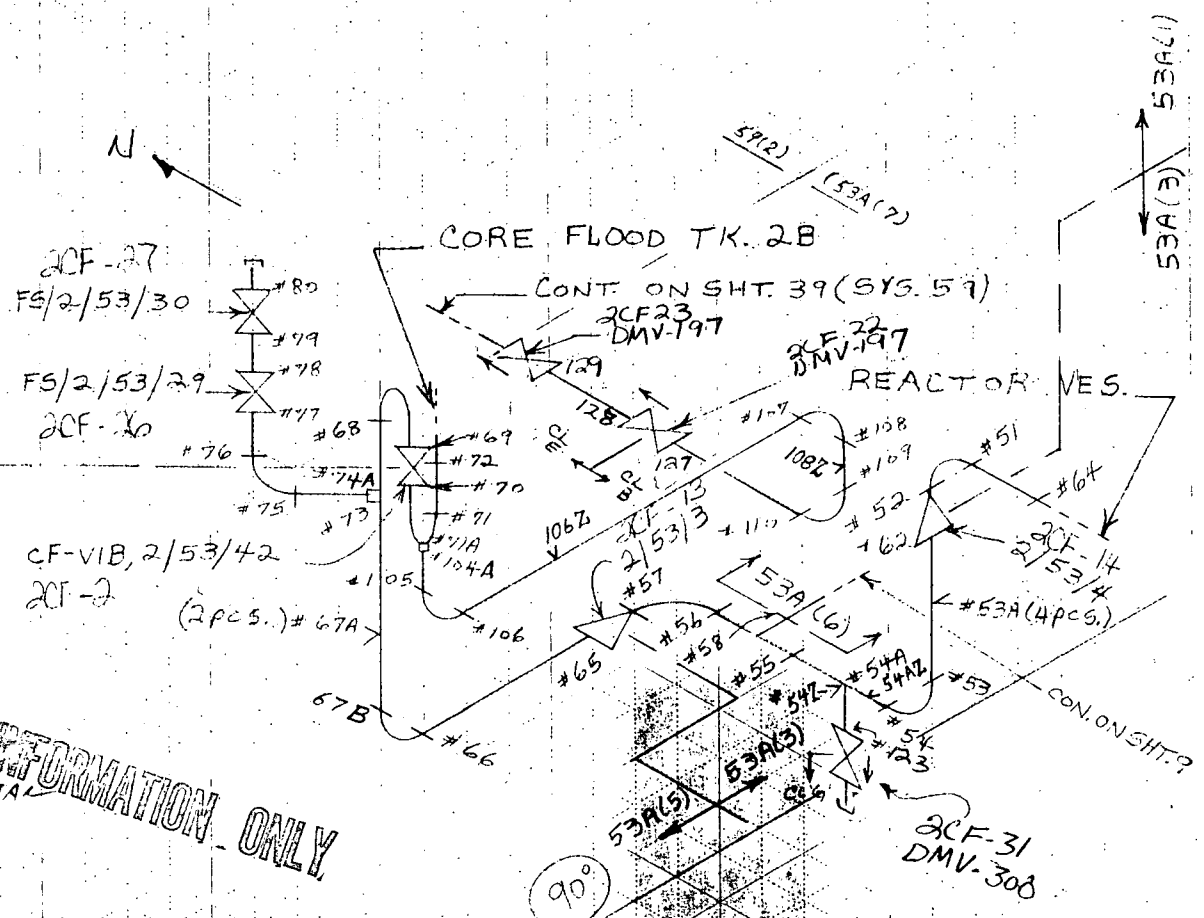
DEF 102A 2.3

\*ATTACH. WELDS: 67A, 53A, 54Z, 106Z, 54AZ, 108Z

B31.1  
 25-1501.3  
 PS 601.2  
 PS 601.4

# PART III OF III

- { SYSTEM 53A(1) CRES/316H } "1"  
 51, 52, 64 14" φ X 1.250" (CLASS A)
- { SYSTEM 53A(3) CRES/304H } "1"  
 53-57, 62 14" φ X 1.250" (CLASS A)
- { SYSTEM 53A(5) CRES/304H } "5"  
 65, 66, 67B, 68, 69 14" φ X 1.250" (CLASS B)
- { SYSTEM 53A(6) CRES/304H } "1"  
 58 10" φ 1.000" (CLASS A)
- { SYSTEM 53A(7) CRES/304H } "5"  
 70-72 14" φ X .875" (CLASS B)
- 71A, 105-110, 104A, 127 2" φ X .154" (CLASS B)
- 128, 129 2" X .154" (CLASS E)



FOR INFORMATION ONLY

CLASS A - 100% RT AND 100% MT/PT  
 ALL BUTT WELDS, 100% RT & 100% MT/PT  
 ALL BRANCH CONNECTIONS OVER 4" DIAMETER.  
 100% MT/PT ALL FILLET, SOCKET, SEAL,  
 ATTACHMENT, AND BRANCH CONNECTION WELDS.

CLASS C & E - RT 1 WELD FOR EVERY 10  
 BUTT WELDS A WELDER MAKES OVER 4" MT/PT 1  
 WELD FOR EVERY 10 FILLET, SOCKET, SEAL,  
 ATTACHMENT, OR BRANCH WELDS A WELDER  
 MAKES OVER 4" DIAMETER.

CLASS B - 100% RT ALL BUTT WELDS, 100%  
 MT/PT ALL FILLET, SOCKET, SEAL ATTACHMENT,  
 AND BRANCH WELDS. NOTE: ANY WELD 1" AND LESS  
 IN DIAMETER IS CLASS C OR E.

\*Note: Attachment Welds  
 54Z is made over weld  
 54A  
 \*Note: System Classification  
 "C" Applies to material  
 Requirements only (A.N.D.)

| ISO. REV. NO. | CHANGES                     | WELD NOS | OMIT WELDS                      |
|---------------|-----------------------------|----------|---------------------------------|
| 10/TSC        | 54B, 54C                    |          | 119                             |
| 11/TSC        | 122, 112, 509, 35K          |          | 112-115, 104                    |
| 12/TSC        | 122 - REINSTATE             |          | 67, 74                          |
| 13/TSC        | 54B, 54C                    |          | 74                              |
| 14/TSC        | 54B, 54C                    |          | 74                              |
| 15/TSC        | 123, 120, 900, 309, 10      |          | 112, 113, 114, 115A, 115B, 115C |
| 16/TSC        | 111, 112A, 115A, 115B, 115C |          | 112, 113, 114, 115A, 115B, 115C |
| 17/TSC        | 127, 129, 107, 1988         |          | 127, 129, 107, 1988             |

P7-P-25  
 P-7 P-8

REF. DRWG. 1478A,B, 1479D