

1. PAGE 26
OF 29
ENVIRONMENTAL
71-100-1000 6710

NONCONFORMANCE REPORT

25. DISPOSITION CONCURRENCE

REWORK	REJECT	REPAIR	USE AS IS	POS.
			<input checked="" type="checkbox"/>	

DATE: 11/17-77
PROJECT ENGINEER: [Signature]
PROJECT FIELD QC ENGINEER: [Signature]
AUTHORISED INSPECTOR: [Signature]

12. REPORTED BY: Carl H. Tuley
13. VALIDATED BY: [Signature]
14. REPLACEMENT PART NO.: [Blank]
15. REPLACEMENT SERIAL NO.: [Blank]
16. SOURCE: Construction
17. ROUTE TO MATERIAL SUPERVISOR: [Blank]

18. ASME CODE ITEM: [Blank] YES ☐ NO ☒

19. ROUTE TO FIELD ENGINEERING: [Blank]

20. FOR FIELD RECOMMENDATION, SEE SHEET 25

21. FIELD DISPOSITION RESULTS: [Blank]

22. Eng. Disp. [Blank]

23. ENGINEERING DISPOSITION RESULTS: [Blank]

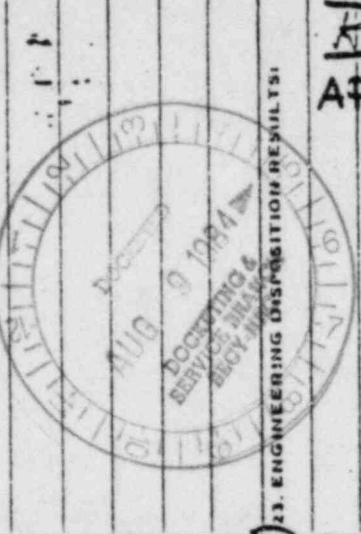
24. IS DESIGN CHANGE REQUIRED: [Blank]

25. REJECTED MATERIAL DISPOSITION: [Blank]

26. RETURN TO SUPPLIER: [Blank]

27. ACCEPTANCE: [Blank]

28. and 29. [Blank]



20. FOR FIELD RECOMMENDATION, SEE SHEET 25

21. FIELD DISPOSITION RESULTS: [Blank]

22. Eng. Disp. [Blank]

23. ENGINEERING DISPOSITION RESULTS: [Blank]

24. IS DESIGN CHANGE REQUIRED: [Blank]

25. REJECTED MATERIAL DISPOSITION: [Blank]

26. RETURN TO SUPPLIER: [Blank]

27. ACCEPTANCE: [Blank]

28. and 29. [Blank]

28. Eng. Disp. [Blank]

29. [Blank]

30. [Blank]

31. [Blank]

32. [Blank]

33. [Blank]

34. [Blank]

35. [Blank]

36. [Blank]

37. [Blank]

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97. [Blank]

98. [Blank]

99. [Blank]

100. [Blank]

NONCONFORMANCE REPORT (CONT'D)

Cont. block 19:

inspect 13" of fillet weld, beam 134B2 left hand end, near & far side. to column D3C1, could only inspect 9" of fillet welds. beam 19B11 Right hand end, near side to column D4C2 could only inspect 19 1/2". QC-G1 C-63-31 Reactor Unit #1 Elev 217' beam 7A43 to column, could not inspect 15 1/2" of full penetrat. weld located on inside and obstructed by plate. QC-G1 C-63-32 beam 2C56 to embed, could only inspect 15 1/2", Reactor Unit #1 Elev 217'.

Seven (7) Hold Tags

Radiation Elev 191' New-Q
Reactor Unit #1 Elev 217' Q-A

Inspection plan C-462-W-1-3, Monomil. beam stiffeners all buried in concrete - see QC-G1-1 report No. C-63-22, Control Room - Area 8 - Elev 217 - THIS NCR IS A CLARIFICATION FOR NCR 262.

Q#B

Sixteen (16) Hold Tags

Re-inspection of welding on plan C-954-W-1-3 disclosed welding deficiencies and is documentation QC-G1-1, C954-6, also see attached sheets. Unit 2 RPV Elev 257-261 Q#D over 100 tags

This NCR is a clarification for NCR-2627.

Sheets: 14, 15
and 16

Wardner 7-28-77

B. Hamley 8-1-77

ENG'S COMMENT.



Block 19

CONTINUED

NONCONFORMANCE REPORT (CONT'D)

PAGE 3 OF 3

297 ENCL

14. HCR NO. 2711

14, 15

It is indicated by the attached Field Inspection Report page 14 and 15 of 24 pages & referenced in Block 19 of the QC-61-1 Control No. C954-6 is submitted for Project Engineering evaluation. Please find listed below an identification of the defects, their description, the cause of hardening, the metal pullout only one (1) the first three items is recorded any others related to the immediate area are of less magnitude. This work was done by Special Field Area in support of Specification 8031-C-69 OER housing support, angled plate, fabrication. The field measurements that these surface dimensions determine if the work is acceptable or not is to be recorded in the report.

FLANGE 1 EXHAUST OF DISCOMMISSIONED REPORTED

ITEM A - BASE METAL PULLOUT $\frac{1}{16}$ " DEEP (PAINTED SURFACE)

ITEM B - BASE METAL PULLOUT $\frac{1}{16}$ " DEEP (PAINTED SURFACE)

ITEM C - BOLT HOLE AS REF. ON C-954

ITEM D - ARC STRIKE $\frac{3}{4}$ " LONG

ITEM E - ARC STRIKE $\frac{1}{2}$ " LONG

ITEM F - BOLT HOLE AS REF. ON C-954

ITEM G - ARC STRIKE $\frac{1}{2}$ " LONG

ITEM H - UNDERCUT $\frac{1}{8}$ " DEEP

ITEM I - ARC STRIKE $1\frac{1}{2}$ " LONG

ITEM J - BASE METAL PULLOUT $\frac{1}{16}$ " DEEP

ITEM K - BOLT HOLE AS REF. ON C-954

ITEM L - BASE METAL PULLOUT $\frac{1}{16}$ " DEEP

ITEM M - UNDERCUT $\frac{1}{16}$ " DEEP

NONCONFORMANCE REPORT (CONT'D)

(Block 19 Cont.)
Date 1-31-77

TABLE 2 EXTENT OF DISCONTINUITIES REPORTED

- ITEM A - BASE METAL PULLOUT $3/32$ " DEEP
- ITEM B - WELD DEPOSIT VISIBLE
- ITEM C - BASE METAL PULLOUT $3/64$ " DEEP
- ITEM D - BOLT HOLE
- ITEM E - ARC STRIKE $1/4$ " LONG
- ITEM F - ARC STRIKE 2 " LONG
- ITEM G - ARC STRIKE
- ITEM H - ARC STRIKE
- ITEM I - SCOT HOLE
- ITEM J - BOLT HOLE
- ITEM K - BASE METAL PULLOUT $3/64$ " DEEP
- ITEM L - POROSITY INDICATION $1/16$ " DIA.
- ITEM M - ARC STRIKE 1 " LONG
- ITEM N - BASE METAL PULLOUT $1/32$ " DEEP
- ITEM O - BOLT HOLE
- ITEM P - WELD START $1/8$ " FROM BOTTOM OF SEAM

Reviewed by 1-31-77
by 8/27/77
Report to Des. Engineer

Approved by 1-31-77
by 8/27/77
R. L. Lantry 4-1-77



FIELD INSPECTION REPORT RECORD COPY

3. RECORD CONTROL

CONTROL NO. C-63-90

FILE NO. _____

1. PROJECT NO. 80312. DATE 7/4/77PAGE 2 OF 2

4. ITEM INSPECTED Dr. inspection of work in question in Quality Control inspection plan C-543-W-1-5. Hinges to beams fillet welds, beam 127B11 Right hand end, For side to beam 11822, only could inspect 12" of weld remainder in concrete. Beam 127B11 Right hand end, For side to beam 11822, only could inspect 12" of weld remainder in concrete.

EXL-19905. LOCATION Hardwaste Elev. 191'6. TYPE OF INSPECTION Visual & dimensional7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION ASIS D1.1-72, D1-73, R2-74
C-63/2 Add 1-3 FAD
QCT Inspection Plan C-543-W-1-58. INSPECTION EQUIPMENT USED Fillet weld gage, wire brush9. RESULTS OF INSPECTION: SATISFACTORY ☒ ^{7/4/77} UNSATISFACTORY ☐10. ACTION TAKEN IF UNSATISFACTORY EXL-2710

NOTE - FOR INSPECTIONS PREVIOUSLY ACCOMPLISHED - ALSO
SEE D.C. 61-1 C-63-17 dated - 11-2-76 (modified 7-23-77)
ALSO SEE REPORT # C-63-22 dated 4-5-77

ve Bishop ^{7/4/77}

11. ENGINEER

Carl N. Tuley

F101 SM2 AT { 112C1, 112C2
114C2, 112C2
F101 SM3 AT { 121C2, 108C2
104C2, 126C2
F101 SM4 AT 103C2
F101 SM5 AT 103C2, 110C1
F101 SM6 AT 103C1, 106C2
F101 SM7 AT 109C2

RECORD COPY

TYPICAL BEAMS TO COL. WEBS
(BOLTED CONNECTION)

Control No. C-41A-793 & C-63-30

BECHTEL DESIGN C-542-0

HAMERICK GENERATING STATION
UNIT 1 & 2 CONTRACT 6031
FEDERAL ELECTRIC COMPANY
RADWASTE SUMMIT

DETAILS ON THIS DRAWING SHOW
THE FINAL AS-BUILT STRUCTURAL
STEEL, CERTIFIED TO BE CORRECT
FOR MICROFILMING BY THE OWNER

ING BY THE OWNERS
Quadrant



American Bridge
Division of United States Steel Corporation

FABRICATION ASSIGNED TO ELMIRA
DRAWING MADE BY AMBRIDGE
MADE BY RJM DATE 11-15-73 CHECKED BY LJM DATE 1-24-74
EX LIMAGE OF Q4R

F		
E		
D		
C		
B	4/33/34	U
A	342.79	G

0-01453 14-0

6487 12-0

КБ944

E3

L BASE A B C WALL BEARING BEAMS)

NCR 2210 C 2
 16808

REVISIONS		BY	CHK
5	3-2-73	MINOR REVISIONS AS NOTED RESULTING FROM VENDOR DATA	
4	7-11-71	ADDED SECT A.5.2.1.1 NOTE 4, INSERT EX. 4.1.3.1 BEAMS AS NOTED ISS. 20.7	
3	3-11-72	GEN REV. 4 ISSUED FOR VENDOR	
2	11-17-71	REV FRAMING AS IN REISS. 12. FOR FABRICATION	
1	7-13-71	MINOR REV. RECORD CHANGES ISSUED FOR FABRICATION	
A	6-30-71	ISSUED FOR MILL ORDER	
A	3-14-71	ISSUED FOR BIDS	
No.	DATE	REVISIONS	BY

SCALE AS NOTED DESIGNED C.W. TST DRAWING BARDOUR

RECORD COPY **BECHTEL**
 SAN FRANCISCO

LIMERICK GENERATING STATION UNITS 1 & 2
 PHILADELPHIA ELECTRIC COMPANY

REACTOR BUILDING UNIT
 STRUCTURAL STEEL
 FRAMING PLAN ELEV. 217

JOB No. 8031 DRAWING No. REF. C-1974

BECHTEL DWG 8031-C-15-815

Control No. 0.63-314C-63-32

Bechtel Corp.
 2859

E2

7/1/73



FIELD INSPECTION REPORT RECORD COPY

3. RECORD CONTROL

CONTROL NO. C-63 3.2

FILE NO. _____

1. PROJECT NO. 80312. DATE 7/7/77PAGE 2 OF 4
OF 7/22/77

4. ITEM INSPECTED Re-inspection of welds in question in Quality Control
inspection plan C-197-11-1-6. Areas to beam and gages & contacts. Fillet
welds, beams W21-2 and beam W21-4-6. On beam W21-4-6
with arch to beam & arch to contact weld inaccessible due to
concrete. (Note of weld visible)

0'-5 1/2"Ch 1-31-77NR-19805. LOCATION Reactor Unit #1 Elev. 217'6. TYPE OF INSPECTION Visual & dimensional7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION AWS-D11-72, R1-73, R2-74
PCT Inspection Plan C-197-11-1-6 C-63 field 1-3 R2
DWG C-197/168. INSPECTION EQUIPMENT USED Fillet weld gage, wire brush9. RESULTS OF INSPECTION: SATISFACTORY ☒ ^{7/7/77} UNSATISFACTORY ☐10. ACTION TAKEN IF UNSATISFACTORY NR-2710

NOTE: FOR INSPECTIONS PREVIOUSLY ACCOMPLISHED -
ALSO SEE QCGI-1 REPORT # C-63-16 DATED 11-1-76. Goodwin
ALSO SEE REPORT # C-63-22 DATED 4-5-77 7-28-

Control No. C-63-31 & C-63-32

File No. 1

RECORD COPY

5	3-2-73	MINOR REVISIONS AS RESULTING FROM
4	7-18-72	ADDED SECT. A. 1 NOTE 4, REVISION 1 PLAN 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 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
3	3-11-72	GEN REV. 4 ISSUED
2	11-17-71	REV. 11-17-71
1	7-13-71	MINOR REV. 11-17-71 ISSUED FOR FABRICATION
A	6-30-71	ISSUED FOR MILL ORDER
A	3-2-71	ISSUED FOR BIDS
No.	DATE	REVISIONS

SCALE AS NOTED DEFINED C.W. 1ST DRAWING

BECHTEL
SAN FRANCISCO

LIMERICK GENERATING STATION U
PHILADELPHIA ELECTRIC COMPANY

REACTOR BUILDING
STRUCTURAL STEEL
FRAMING PLAN ELEV

JOB No.

DRAWING

8031

REC-1

BECHTEL DWG

VALLEY
STEEL CO.

EL. CORP.

9 E2

179 REV. 12

179 REV. 12



FIELD INSPECTION REPORT

3. RECORD CONTROL

CONTROL NO C-41A-493

FILE NO. _____

1. PROJECT NO. 80312. DATE 7/6/77PAGE 1 OF 2

4. ITEM INSPECTED Re-inspection of walls in question in Quality Control inspection plan C-41A-116-W-1-1. Angles to columns fillet welds beam 120B8 left hand end along side to column 103C2 beam 120B8 right hand end along side to column 105C1 beam 120B1 right hand end along side to column 105C2 beam 127B7 right hand end along side to column 103C1 - 13" only remainder in concrete beam 134B7 left hand end along side to column 103C1 - 9" only on both sides remainder in concrete beam 119B11 right hand end along side to column 10417 - 14 1/2" only on left side remainder in concrete, (cont)

5. LOCATION Roadway Elev 191'6. TYPE OF INSPECTION Visual & dimensional7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION DOT D11-72, R1-73, R2-74
DOT Inspection Plan C-41A-116-W-1-1 C-41A/5 R11-1-1
Dist C-543/28. INSPECTION EQUIPMENT USED Fillet weld gage & wire brush9. RESULTS OF INSPECTION: SATISFACTORY ☒ UNSATISFACTORY ☒10. ACTION TAKEN IF UNSATISFACTORY None

NOTE: FOR INSPECTIONS PREVIOUSLY ACCOMPLISHED - ALL SET DCG-1-1 REPORT # C-63-16 dated 11-1-76 7-28
ALSO SEE REPORT # C-63-22 dated 4-5-77



CONTINUATION SHEET

SECOND COPY

3. RECORD CONTROL

CONTROL NO. C-01A-11

FILE NO. 10402

1. PROJECT NO. 8031

2. DATE 7/6/77

4. PAGE 2 OF 2

LOCK CONT'D

5. FORM NO.

7. REPORT NAME

4 CC-01-1

Re-inspection of welds in Quality Control Plan C-01A-11

8. and room 129B4 Right hand end, and far side to column 10402.

NCE-1980

Distribution:
White - QC Files
Canary - Originator

re B. L.

7/12/77

9. ENGINEER

Carl H. Tuckey

THESE SHIMS ARE TO BE USED
IN ALIGNING STRUCTURE
(USE AS REQUIRED)

112C1, 113C1, 114C2, 115C2, 121C2, 108C2, 104C2, 126C2, 103C2, 110C1, 106C2, 109C2

F101 SM2 AT { 112C1, 113C1, 114C2, 115C2 } PG. 13 OF 14

F101 SM3 AT { 121C2, 108C2, 104C2, 126C2 }

F101 SM4 AT 103C2

F101 SM5 AT 103C2, 110C1

F101 SM6 AT 103C1, 106C2

F101 SM7 AT 109C2

RECORD COPY

TYPICAL BEAMS TO COL. WEBS.

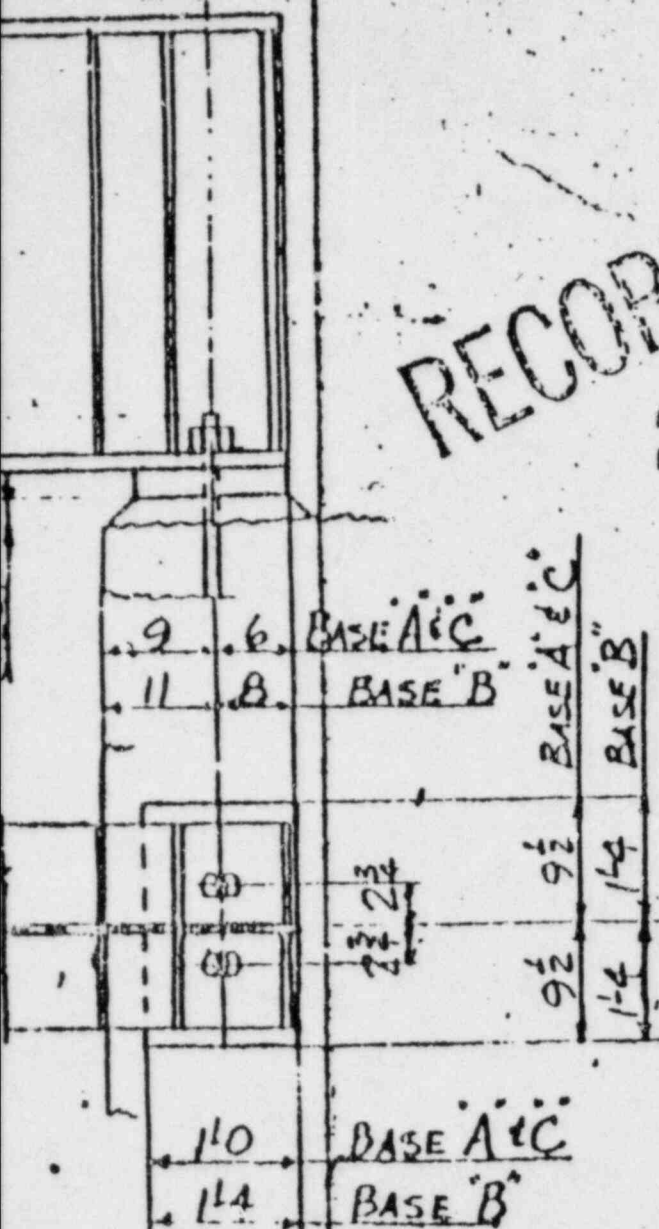
Control. No. C-41A-493 & C-163-30
File No.

(BOLTED CONNECTION)

BECHTEL DESIGN C-542-3

DETAILS ON THIS DRAWING SHOW
THE FINAL AS-BUILT STRUCTURAL
STEEL, CERTIFIED TO BE CORRECT
FOR MICROFILMING BY THE OWNER

EMERICK GENERATING STATION
UNIT 1 & 2 CONNECTION
PHILADELPHIA ELECTRIC COMPANY
RAHWASTE BUILDING



41A-116-4



American Bridge
Division of United States Steel Corporation

FABRICATION ASSIGNED TO EMIRA
DRAWING MADE BY AMBRIDGE
MADE BY RJM DATE 11-15-73 CHECKED BY LJN DATE 1-24-74
IN CHARGE OF G.H.R.

F		
E		
D		
C		
B	4/23/74	D
A	3-12-74	C

REVISIONS

ORDER NO

K5944

EXHIBIT NO

E3

BASE A+B+C WALL BEARING BEAMS



FIELD INSPECTION REPORT

3. RECORD CONTROL

CONTROL NO. C954-6

FILE NO. _____

1. PROJECT NO. 8031

2. DATE 7/21/77

PAGE 1 OF 3

4. ITEM INSPECTED Re-inspection of welds in question in Quality Control inspection
Plan C-923-11-1-3
CNT 7-21-77

5. LOCATION Reactor Containment Unit #2

Elev. 253'

6. TYPE OF INSPECTION Visual & dimensional

7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION AWS D11-72, D1-73, D2-74

WIR C-923-11-1-3

C63/2 Add. 1-3 EAZ

Dwg. C-943-24/4

8. INSPECTION EQUIPMENT USED Depth gauge, ruler

9. RESULTS OF INSPECTION:

SATISFACTORY ☐

UNSATISFACTORY ☒

10. ACTION TAKEN IF UNSATISFACTORY _____

NOTE:

FOR INSPECTIONS PREVIOUSLY ACCOMPLISHED - ALSO SEE
OC61-1 Report Nos. C63-21 dated 1-17-77 AND
C-63-22 dated 4-5-77. Max Diner 7-28-77.

Distribution
White - OC Files
Canary - Original

Max Diner

11. ENGINEER

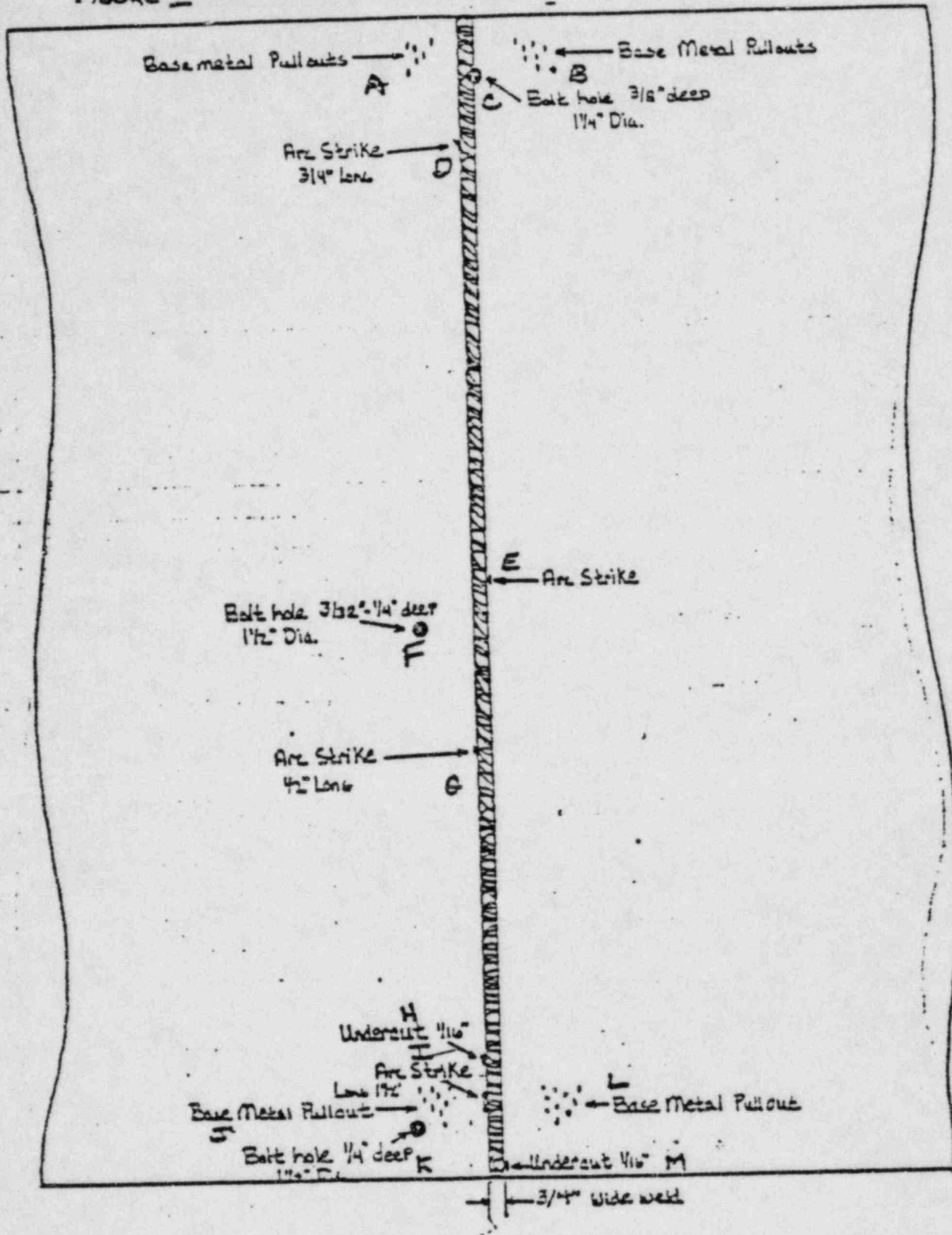
Carl H. Tuley

7-28-77

FIGURE 7

Undercut. Washout at top of weld

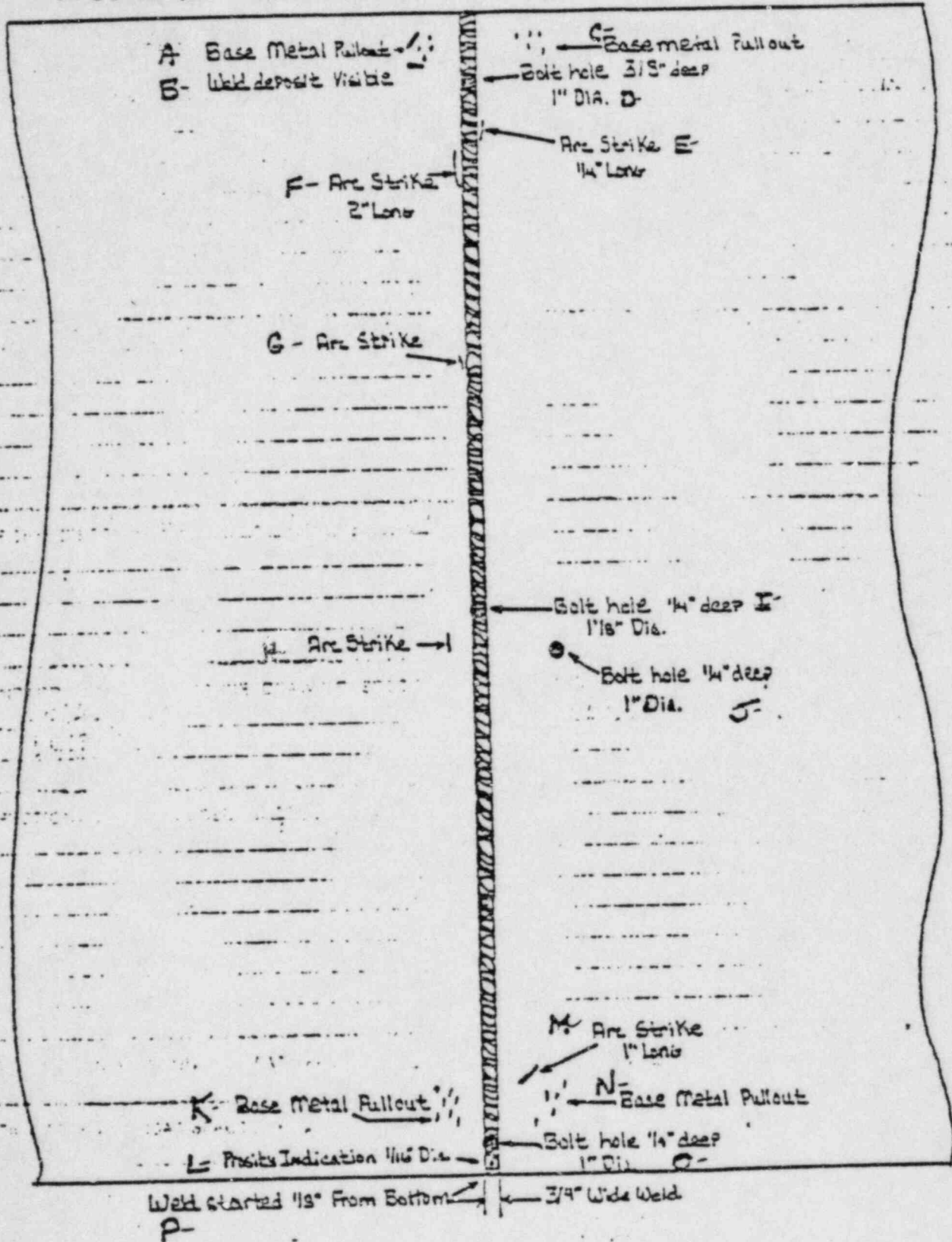
page 206



3/32" = 1"

ENGR
Comment

FIGURE 2



$\frac{3}{32} = 1"$

0297



FIELD INSPECTION REPORT

CONTROL NO. C-63-22
FILE NO. IPC-10-63-171. PROJECT NO. 2031 2. DATE 4-5-77 PAGE 1 OF 78ITEM INSPECTED Inspection of installed structural steel beams & columns to determine its accessibility for inspection.See attached sheets for flow numbers.

5. LOCATION Control Room Elev. 269', 299', 217'
Radiation Elev. 190'-180', 191'
Unit #1 Elev. 217', 201', 299'
Unit #2 Elev. 253', 220', 217', 201', 264', 283'

6. TYPE OF INSPECTION Visual7. STANDARD / CODE / PROCEDURE / DRAWING / SPECIFICATION C-63 Rev 2 Add'l - FA#28. INSPECTION EQUIPMENT USED VISUAL9. RESULTS OF INSPECTION: SATISFACTORY ☒ UNSATISFACTORY ☐

10. ACTION TAKEN IF UNSATISFACTORY

NOTE: FOR PREVIOUS INSPECTIONS OR RE-INSPECTIONS ACCOMPLISHED, AS APPLICABLE, SEE ATTACHED LIST FOR WELDING INSPECTION PLAN AND DCGI-1 REPORT NUMBER Machine 7-28-77

K. R. Hill 4-5-77
11. ENGINEER Carl H. Turley

11-000000
This is QC File
Canary - Originator

Results: A= acc., C. Cont. 63-22
Cere

201-W-1-9 Elev. 253

Area 18

Unit #2

A

2183 to Cl. 114C1

232B2 to Cl. 116C1

206B2 to Cl. 116C1

233B2 to Cl. 111C1



C-192-W-1-8 Elev. 220'

Area 13, 14, 17, 18

Unit #2

109C2

A

111C1

A

112C1

A

112C2

A

114C1

A

115C2

A

116C1

A

C-198-W-1-12 Elev. 217'

Area 17+18

Unit #2

4C184L

A

4C184R

A

C-197-W-1-10 Elev. 217'

Area 16

Unit #1

W21x68-6 (3636-9)

3

A

C-195-W-1-17 Elev. 201

Area 17+18

Unit #2

CBx11.5-2

A

CBx11.5-2

A

CBx43-3 (3634-39)

A

CB-X11.5-2

A

4C184-2910 ps 18 8/29

Encl. 29

Results: A-Corr., C-Concrete
Redwaste

SHT 3 of 78
over 7-28

543-W-1-5

Elev. 190'-108'

Area 20/22

Redwaste

127B11 + 118B2

A

RECORD 5024

54 ^{over 7-28}

945-W-1-3

Elev. 257'-254'

Unit #2

CRD Housing

Concrete

7-198-W-1-4

Elev. 217'

Area 14'

Unit #2

(J.H.)

7-197-W-1-11

Elev. 217'

Area 11

Unit #1

2044 to Col. 1A24

A

7-197-W-1-8A

Elev. 217'

Area 15

Unit #1

2A13 to Col. 1B34

A

7-197-W-1-5

Elev. 217'

Area 11/15

Unit #1

(W.A.O.)

(L.M.)

7-195-W-1-11

Elev. 201'

Area 15

Unit #1

1C16 to Col. 1B34

A

7-195-W-1-6

Elev. 201'

Area 11

Unit #1

Beam
W27x145-6 to Col.

A

7-194-W-1-1B

Elev. 201'

Area 13

Unit #2

1B3B

A

7-194-W-1-17

Elev. 201'

Area 16

Unit #1

to prime

1C16 to Col. 1D34

A

1670

Results: A=Acc, C=Concrete

194-W-1-16 Elev. 201 Area 11 Unit #1
W 44-6 (3636-16) to Col. Acc.
1A29 to Col. Acc.

RECORD 0024

198-W-1-17 Elev. 217' Area 14 Unit #2 (L.H.)

194-W-1-5 Elev. 201' Area 16 Unit #1 no print

193-W-1-10 Elev. 201' Area 11+12 Unit #1
1A36 to Col. Acc.
1A29 to Col. Acc.
413 to Col. Acc.
(3636-16) to Col. Acc.

19 Elev. 217' Area 12+16 Unit #1 (J.H.)

4 Elev. 269' Area 8 Cont'n Room
B Acc. 363 N.S. Acc.
37 Acc. 363 N.S. Acc.
32 S. Acc. 462 N.S. Acc.
61 N.S. Acc. 364 N.S. Acc.
42 N.S. Acc. 362 N.S. Acc.
44 N.S. Acc. 362 N.S. Acc.
41 N.S. Acc. 462 S. Acc.
63 N.S. Acc. 461 N. Acc.
65 N.S. Acc. 464 N. Acc.
65 N.S. Acc. 861 N. Acc.

ENG
Comm

Results: A=acc, C=concrete SHC 5 of =

Results A=acc, C=concrete

Beam #

Area Elev.

8 289'

A

C-478-W-1-1

EXHIBIT COPY

529 LHE

52 LHE

58 LHE

583 LHE

1210 LHE + RHE

123 LHE + RHE

231 LHE

34 LHE

34 LHE + RHE

34 LHE

32 LHE

38 LHE

4 LHE

51 LHE

513 LHE

513 LHE

510 LHE

189 L 1 17/19 217'

C-198 F13

189 L

A

189 R

189 R

189 L

189 R

ENCLOSURE
CONTRACT

025

Results: A=200, C=concrete

C-63-22

W-1
7-6 Elev. 217' Area 16 Unit #1
2A5B A

RECORD COPY

W-1
9-4 Elev. 217' Area 15 Unit #1
2C6B A
A
W8X17-2

W-1
C204-9-2 Elev. 223' Area 13 Unit #2
138B7 A
14663
136B4
138B2
36

2-41A-116-W-1-1 Radwaste 20/22 151' all ke.
104C2 106C1 105C2 105C1 103C1 103C2
128B11 117B1 136B8 117B2 118B2 118B5
117B1 136B8 116B2

465-W-1-3 Elev. 217' Area 8 Control Room No print
Well Beam diffuser - manual

WCL 2710 ps 22 of 24
(25)

Results: A=acc, C=Concrete C-63-22

C-201-W-1-7 Elev. 253' Area 17 Unit #2

(all)

A

35B3

231B3

231B2

222B6

222B5

222B4

232B5

232B9

230B4 to Col. 113C1

230B2 to Col. 115C1

22BB5 to Col. 114C2

C-01-W-1-10 Elev. 253' Area 17 Unit #2

232B5 to Col. 112C2

A

C-200-W-1-1 Elev. 238' Area 11 Unit #1

234B9

A

C-198-W-1-14 Elev. 217' Area 13 Unit #2

W27x102-7 3634-22

A

W33x118-7

C-201-W-1-5 Elev. 253' Area 14 Unit #2

239B4 to Col. 115C2

238B1 to Col. 109C1

233B1 to Col. 109C2

A

✓

Eng's Demand



CONTINUATION SHEET.

3. RECORD CONTROL
CONTROL NO. C63-2
FILE NO. _____1. PROJECT NO. 80312. DATE 7-28-774. PAGE 8 OF 8BLOCK CONT'D 5. FORM NO. 6. REPORT NAME ATTACHMENT SHEET TO C-63-22 FOR
10 CC-61-1 RE INSPECTION OF INSTALLED STRUCTURAL STEEL

8. WELDING INSPECTION PLAN

CC-61-1

C-201-W-1-9	C-63-8 (10-27-76)
C-192-W-1-8	C-63-7 (10-28-76) C-63-8 (10-27-76)
C-198-W-1-12	C-63-9 (10-28-76)
C-197-W-1-10	C-63-10 (10-28-76)
C-195-W-1-17	C-63-9 (10-28-76)
C-543-W-1-5	C-63-30 (7-5) C-63-17 (11-2-76)
C-954-W-1-3	C-63-21 (10-17-76) C-954-6 (7-21-77)
C-198-W-1-4	C-63-8 (10-27-76) C-63-7 (10-26-76)
C-197-W-1-11	C-63-10 (10-28-76)
C-197-W-1-8A	C-63-10 (10-28-76)
C-197-W-1-5	NO OTHER DCGI-1's GENERATED
C-195-W-1-11	C-63-11 (10-29-76)
C-195-W-1-6	C-63-13 (10-29-76) C-63-27 (7-5-77)
C-194-W-1-18	C-63-11 (10-29-76)
C-194-W-1-17	C-63-11 (10-29-76)
C-194-W-1-16	C-63-11 (10-29-76)
C-198-W-1-17	NO OTHER DCGI-1's GENERATED
C-194-W-1-5	C-63-13 (10-29-76) C-63-26 (7-5-77)
C-193-W-1-10	C-63-13 (10-29-76) C-63-24 (7-5-77)
C-192-W-1-4	NO OTHER DCGI-1's GENERATED
C-473-W-1-3	C-63-20 (1-17-77)
C-478-W-1-1	C-63-20 (1-17-77)
C-198-W-1-13	C-63-9 (10-28-76)
C-197-W-1-6	C-63-16 (11-1-76) C-63-32 (7-5-77)
C-197-W-1-4	C-63-16 (11-1-76) C-63-31 (7-5-77)
C-204-W-1-2	C-63-28 (7-1-77) C-63-12 (11-1-76)
C-41A-116-W-1-1	C-63-16 (11-1-76) C-41A-493 (7-6-77)
C-465-W-1-3	C-63-18 (11-8-76)
C-201-W-1-7	C-63-8 (10-28-76) C-63-7 (10-26-76)
C-201-W-1-10	C-63-14 (11-2-76) C-63-8 (10-27-76) C-63-7 (10-26-76)
C-200-W-1-1	C-63-19 (11-2-76) C-63-25 (7-5-77)
C-198-W-1-14	C-63-15 (11-1-76)
C-201-W-1-5	C-63-17 (11-1-76) C-63-29 (7-1-77)

DATES IN PARENTHESES REF
DATE INSPECTION WAS PERFORMEDDistribution:
White - QC Files
Canary - Originator

9. ENGINEER

J. A. Driscoll 7-28-77

(CONTINUED) ROUTE TO PROJECT ENGINEERING FOR EVALUATION

THIS NCR IS WRITTEN IN RESPONSE TO P.E. Co. AUDIT FINDING # N-093. THE CORRECTIVE ACTION INCLUDED RE-INSPECTION OF A NUMBER OF WELDS, HOWEVER SOME OF THESE WERE FOUND TO BE PERMANENTLY INACCESSIBLE, FOR VARIOUS REASONS, AND ARE DOCUMENTED IN THIS NCR.

ITEM 1: RADWASTE BLDG. STR. STEEL ELEV. 191'-0 (Dwg C-543 AND VENDOR PRINT 8031-C41A-116-4, K5944 E3)

13 CLIP ANGLE CONNECTION WELDS WERE INSPECTED, 7 WERE FULLY ACCEPTIBLE, 6 HAD THE UPPER PART OF THE ANGLE EMBEDDED IN SLAB CONCRETE (WITH THE LOWER PORTION ACCEPTIBLE) THE SIX LOCATIONS ARE DESCRIBED ON SHEETS 5 AND 11 OF THIS NCR.

ITEM 2: REACTOR BLDG. UNIT 1 STR. STEEL ELEV 217'-0 (Dwg C197 AND V.P. 8031-C-46-85-11)

W21 X 68 LOCATED 7'-0" SO. OF E AT 21.5 LINE, CLIP ANGLE ATTACHMENT TO 2B/C609 EMBED, SOUTH SIDE HAD UPPER PART EMBEDDED IN SLAB CONCRETE. (BEAM # 2C56, RIGHT END, NEAR SIDE) VISIBLE 5 1/2" WAS FULLY ACCEPTIBLE. SEE SH 9 OF THIS NCR.

ITEM 3: REACTOR BLDG UNIT 1 STR STEEL ELEV 217'-0 (Dwg C197 AND V.P. 8031-C46-85-11)

DIAGONAL BEAM AT 15.5 AND F (Bm # 2A43, LEFT END), W21 X 68 HAS A DOUBLE PLATE CONNECTION, DETAIL 4/C 193.

(CONT'D)

(CONT'D)

THE INNER FULL PENETRATION WELD CAN NOT BE INSPECTED DUE TO THE SECOND PLATE ALREADY WELDED. PRESENCE OF BACKING BAR IS VERIFIED. SEE SH 7, THIS NCR.

ITEM 4: CONTROL ROOM STR. STEEL ELEV 217'-0 (DWGS C463 AND C465)

MONORAIL BEAM STIFFENERS (DETAIL 2 / C465) ARE EMBEDDED IN SLAB CONCRETE FOR ALL EXCEPT THE BOTTOM 2". PRESENCE OF ALL STIFFENERS IS VERIFIED, BUT NO WELD INSPECTION COULD BE PERFORMED. SEE SH 17, THIS NCR.

ITEM 5: RPV PEDESTAL UNIT 2 CRD HOUSING SUPPORT EMBED PLATE (DWG C954)

AT SPICE LOCATIONS (90° AND 270°), EMBED PLATE HAS A NUMBER OF DEFICIENCIES DESCRIBED ON SHEETS 3, 4, 14, 15, AND 16 OF THIS NCR. NO BACKING BAR WAS USED FOR THE SPICE WELDS (AS DETERMINED FROM THE TOP OF THE PEDESTAL CONSTR. J-1) AND THE BACK SIDE OF THE PLATE IS INACCESSIBLE FOR INSPECTION.

ll

Jy alturn 9-1-77
Dy Chaudhary 9-1-77

BLOCK 22. ENGINEERING DISPOSITION

- (1) RADWASTE BLDG. STR. STEEL, ELEV. 191'-0"
BEAMS 127B7, 127B11, 134B2 AND 119B11.
USE AS IS

RATIONALE: PER ENGINEERING ANALYSIS, FILE 41-P,
SHEET NOS. 131 TO 136, VISIBLE WELD IS 'CAPABLE'
OF SUPPORTING DESIGN LOAD.

A.K. Gardner
10.7.77

- (2) REACTOR BLDG. STRUCT. STEEL, ELEV. 217'-0" (DWGS. C-197, C-127 (CONC. SLAB & V.P. C-46-133-4) USE AS IS - RATIONALE: BEAM B1, W21x68-6 WAS DESIGNED TO SUPPORT THE CONSTRUCTION & SERVICE LOADS; THE SLAB WAS DESIGNED TO SUPPORT THE SERVICE LOADS SPANNING IN THE N-S DIRECTION. ASSUMING THAT THE CLIP ANGLE CONNECTION FAILS BECAUSE OF INSUFFICIENT OR FAULTY WELDS, THE SLAB CAN (& WILL) SPAN IN THE E-W DIRECTION AS PER CALC'S, PAGES 78-3 TO 78-5, FILE #22.4L. THE ACCEPTABLE & INSPECTED FILLET WELDS AS DESCRIBED IN ITEM 2 OF BLOCK 19 ABOVE HAVE ADEQUATE STRUCTURAL CARRYING CAPACITY TO SUPPORT ITSELF (W21x68) PLUS ALL PIPING LOADS, CABLE TRAY SUPPORTS ETC. ATTACHED TO IT.

- (3) REACTOR BUILDING, STRUCTURAL STEEL, ELEV. 217'-0" (DWGS. C-197, C-126 & V.P. C-46-182-7). BEAM B19 W21x68-4, SPAN 38.2' DESIGNED FOR CONSTRUCTION LOADS (CASE I) AND DESIGNED TO SPAN 19.1' FOR SERVICE LOADS (CASE II). SEE CALCULATION PAGES 53 TO 60, FILE #22.3L.

CONT'D NEXT PAGE

(3) CONT'D. USE AS IS - RATIONALE: THE VISIBLE & ACCEPTABLE FULL PENETRATION WELDS OF THE OUTER PLATE ($4\frac{5}{16} \times \frac{3}{4} \times 1'-3\frac{1}{2}"$ LONG) OF DETAIL 4/C-193 HAS ADEQUATE SHEAR CAPACITY TO SUPPORT THE REQUIRED DESIGN LOADS, SEE CALCULATION, PAGE 60, FILE # 22.3L

4) CONTROL ROOM, AREA B, STRUCTURAL STEEL, ELEV. 217'-0" (DWGS. C-463 and C-465). STIFFENER PLATES ON BEAMS SUPPORTING MONORAIL BEAM S18 x 54.7 WITH CAP. 15 TONS.

USE AS IS - RATIONALE: THE CARRYING CAPACITY OF BEAMS W36 x 300, W30 x 210 & W30 x 116 WITHOUT STIFFENER PLATES SURPASSES THE ACTUAL LOADS CAUSED BY THE 15 TON MONORAIL. SEE CALCULATIONS, PAGE 419 FILE # 22.3L

5) RPV PEDESTAL, UNIT 2, CRD HOUSING SUPPORT EMBED PLATE (DWG. C-954 & G.E. DWG. 761 & 724 SHTS 1 & 2)

USE AS IS - RATIONALE:

(9) DEFICIENCIES DESCRIBED ON SHEETS 3, 4, 14, 15 & 16, BASED ON ENGINEERING EVALUATIONS, THESE KINDS

CONTINUED - A

ORIGINATOR (

(5) CONT'D. OF IMPERFECTIONS WILL NOT AFFECT THE STRUCTURAL INTEGRITY OF THE 3/4" THICK PLATES.

(b) BACKING BAR NOT USED FOR SPLICE WELDS
SPLICE WELDS WERE NOT DESIGNED & NOT REQUIRE FOR STRUCTURAL SUPPORTS. SPLICE WELDS WERE PROVIDED AT LOCATIONS 90° & 270° TO FORM A CONTINUOUS BACKING FOR CONCRETE POUR.

C. Chin / G.L.R. / S.B. / A.H. / B.C. / A. M. Appl. for R. Elias 11-17-77

BLOCK 25 CONT'D				
DISPOSITION CONCURRENCE				
REWORK	REJECT	REPAIR	USE AS IS	DOC.
PROJECT FIELD ENGINEER				DATE
PROJECT ENGINEER				DATE
PROJECT FIELD OFFICER				DATE
AUTHORIZED INSPECTOR				DATE