

SUPPLEMENTAL EXAMINATION PROGRAM PLAN

(SEPP)

SEABROOK NUCLEAR POWER STATION, UNIT 1

8512240293 851220
PDR ADDCK 05000443
G PDR

YANKEE ATOMIC ELECTRIC COMPANY



1671 Worcester Road, Framingham, Massachusetts 01701

SUPPLEMENTAL EXAMINATION PROGRAM PLAN
(SEPP)

SEABROOK NUCLEAR POWER STATION, UNIT 1

SBP-001

REV.	PREPARED BY	DATE	VERIFIED BY	DATE	COAD REVIEW	DATE	APPROVED BY	DATE
0	<i>Rafferty</i>	<i>1/23/85</i>	<i>[Signature]</i>	<i>1/23/85</i>	<i>[Signature]</i>	<i>1/23/85</i>	<i>[Signature]</i>	<i>1/23/85</i>
1								
2								
3								
4								
5								

*The latest revisions to this program plan are indicated by a vertical line in the right hand margin next to the affected line.

YANKEE ATOMIC ELECTRIC COMPANY



1671 Worcester Road, Framingham, Massachusetts 01701

SEABROOK NUCLEAR POWER STATION, UNIT 1
SUPPLEMENTAL EXAMINATION PROGRAM PLAN
(SEPP)

ATTACHMENTS

Attachment A	Reactor Water Make-Up
Attachment B	Safety Injection
Attachment C	Containment Building Spray
Attachment D	Chemical Volume Control

1.0 INTRODUCTION

The Supplemental Examination Program Plan (SEPP) has been prepared to supplement the Preservice Inspection (PSI) requirements for the Balance of Plant (BOP) of the Seabrook Nuclear Power Station, Unit 1. The SEPP is written to meet certain supplemental inspection requirements committed to in the FSAR 6.6.1. Implementation of this SEPP is in accordance with the Code of Federal Regulations, Paragraphs 10CFR50.55a(b)(2)(iv) and 50.55a(g)(6)(ii).

This SEPP presents a general text which relates to the overall examination requirements for individual piping systems and system-specific examinations.

The SEPP discusses the requirements which form the bases for the development of the plan and the technical scope of examinations to satisfy these requirements. The SEPP also presents procedures for performance and documentation of these examinations.

2.0 BASIS FOR SEPP

As a result of the exemption criteria applied to Safety Class II piping in the Balance of Plant PSI Program Plan, Unit 1, certain key areas of piping systems providing Residual Heat Removal (RHR), Emergency Core Cooling (ECC) and/or Containment Heat Removal (CHR) functions are exempt from the requirements of inspection. In assuring the overall integrity of these systems, Seabrook Station has adopted this SEPP using Code Case N-408 to the 1983 ASME B&PV Code Section XI as guidance in selecting welds to be examined for those portions of Reactor Make-Up Water (RMW), Safety Injection (SI), Containment Building Spray (CBS) and Chemical Volume and Control (CVC) which are necessary for RHR, ECC and CHR.

Those portions of RMW, CS, SI and CBS piping, which are otherwise exempted from PSI by the existing regulations, have been reviewed in accordance with the following criteria.

Rules for Supplemental Class 2 Piping at Seabrook Station

1. The following components (or parts of components) of RHR, ECC and CHR Systems (or portions of systems) are exempt from the volumetric and surface examination requirements of IWC-2500:
 - a. Piping, less than NPS 2 and smaller.
 - b. Component connections, less than NPS 2 and smaller (including nozzles, socket fittings and other connections), to piping any size in all systems.

- c. Vessels, piping, pumps, valves, other components and component connections of any size in statically pressurized, passive (i.e., no pumps) safety injection systems.
 - d. Piping and other components of any size beyond the last shutoff valve in open-ended portions of systems that do not contain water during normal plant operating conditions.
- 2. RHR, ECC and CHR Systems are the Residual Heat Removal, Emergency Core Cooling and Containment Heat Removal Systems, respectively.
 - 3. Statically pressurized, passive safety injection systems of pressurized water reactor plants are typically called by such names as:
 - o Accumulator tank and associated system
 - o Safety injection tank and associated system
 - o Core flooding tank and associated system
 - 4. Normal plant operating conditions include reactor startup, operation at power, hot standby and reactor cooldown to cold shutdown conditions, but do not include test conditions.
 - 5. Extent of examination for supplemental examination of Class 2 piping welds:

<u>System</u>	<u>Category</u>
Reactor Water Make-Up	CF-1
Safety Injection	CF-1
Chemical and Volume Control	CF-1
Containment Spray	CF-1

- 6. Welds identified in this SEPP requiring volumetric examination in accordance with Table 1, Item No. C5.50 have been previously identified in the Balance of Plant Preservice Inspection Program Plan as requiring surface examination only; volumetric examination is being performed as additional assurance. These are identified by *.
- 7. For the systems identified above, approximately 15% of the welds in each system have been selected for the SEPP preservice inspection. This constitutes twice the number of weld inspections required by Code Case N-408. During subsequent inservice inspection, 7.5% of the identified welds shall be examined in accordance with Code Case N-408 requirements.

TABLE 1

Augmented Preservice Inspection of Pressure Retaining Welds
in Austenitic Stainless Steel or High Alloy Piping

<u>Item No.</u>	<u>Parts Examined</u>	<u>Examination Requirements/ Figure No.</u>	<u>Examination Method</u>	<u>Acceptance Standard</u>	<u>Extent of Examination</u>	<u>Examination</u>
CS.10	Piping welds $\geq 3/8$ inch nominal wall thickness for piping $> \text{NPS } 4$					
CS.11	Circumferential weld	IWC-2500-7	Surface and volumetric	IWC-3514	100% of each weld requiring examination	Each inspection interval
CS.20	Piping welds $> 1/5$ inch nominal wall thickness for piping $\geq \text{NPS } 2$ and $\leq \text{NPS } 4$					
CS.21	Circumferential weld	IWC-2500-7	Surface and volumetric	IWC-3514	100% of each weld requiring examination	Each inspection interval
CS.30	Socket welds	IWC-2500-7	Surface	IWC-3514	100% of each weld requiring examination	Each inspection interval
CS.40	Pipe branch connections of branch piping $\geq \text{NPS } 2$					
CS.41	Circumferential welds	IWC-2500-9 to 13 Inclusive	Surface	IWC-3514	100% of each weld requiring examination	Each inspection interval
CS.50	Piping welds $\geq 1/5$ inch nominal wall for piping ≥ 6 inch NPS					
CS.51	Circumferential weld	IWC-2500-7	Volumetric	IWC-3514	100% of each weld requiring examination	Each inspection interval
CS.60	Longitudinal welds which intersect circumferential welds requiring examination by one of the above items	IWC-2500-7	Same as intersected welds	IWC-3514	2.5t measured from intersected circ. weld	Same as intersected circ. welds

TABLE 1
(Cont'd)

NOTES:

- (1) The welds selected for examination shall include 15% of all austenitic stainless steel or high alloy welds not exempted. (Some welds not exempted by this SEPP are not required to be nondestructively examined per Examination Category C-F-1. These welds, however, shall be included in the total weld count to which the 15% sampling rate is applied.) The examinations shall be distributed as follows:
 - (a) The examinations shall be distributed among the Class 2 systems prorated, to the degree practicable, on the number of nonexempt austenitic stainless steel or high alloy welds in each system (i.e., if a system contains 30% of the nonexempt welds, then 30% of the nondestructive examinations required by Examination Category C-F-1 should be performed on that system);
 - (b) Within a system, the examinations shall be distributed among terminal ends [see Note (3)] and structural discontinuities [see Note (4)] prorated, to the degree practicable, on the number of nonexempt terminal ends and structural discontinuities in that system; and
 - (c) Within each system, examinations shall be distributed between line sizes prorated to the degree practicable.
- (2) Terminal ends are the extremities of piping runs that connect to structures, components (such as vessels, pumps, valves), or pipe anchors, each of which acts as a rigid restraint or provides at least two degrees of translational restraint to piping thermal expansion.
- (3) Structural discontinuities include pipe weld joints to vessel nozzles, valve bodies, pump casings, pipe fittings (such as elbows, tees, reducers, flanges, etc., conforming to ANSI B16.9) and pipe branch connections and fittings.
- (4) Figure numbers and acceptance standards refer to those in Section XI, summer 1978 Addenda.

3.0 EXAMINATION REQUIREMENTS

3.1 Surface Examination

Surface examinations are conducted in accordance with written procedures to the requirements of ASME '77/S78 Section V, Article 6, or equivalent. Shop or field examinations may serve in lieu of a specific preservice examinations. Where construction records are to be used as preservice records, the records system and format shall be reviewed for compatibility with ASME Section XI IWA 6000.

Acceptance standards will be those of Section XI, Paragraph IWB 3514. Indications which exceed the acceptance criteria shall be repaired in accordance with ASME Section XI '77/S78, Article IWC-4000.

3.2 Volumetric Examination

Ultrasonic examination will be performed to procedures capable of detecting I.D. surface connected artificial flaws at 10% of the nominal pipe wall thickness. Reflectors equivalent to 50% of the indicated amplitude of the artificial flaw will be fully investigated in accordance with ASME '77/S78 Section XI, Appendix III. Indications will be referred to IWB 3514 for acceptance. Indications which exceed the acceptance criteria shall be repaired in accordance with ASME Section XI '77/S78, Article IWC-4000.

3.3 Schedule

All examinations by the SEPP will be performed prior to fuel load.

3.4 Quality Assurance

Level I surveillance will be performed by the inspection company. Seabrook Station Project Construction QA Group will perform Level II surveillance and Level III auditing functions.

3.5 Ultrasonic Testing Calibration Standards

Table 3.5, Calibration Standard Summary, lists UT Calibration Standards required to perform the ultrasonic examinations. All calibration standards are retained on site. Additional calibration standards may be required.

The UT examination calibration standard material selection is in accordance with Subarticle III-3400 of Appendix III to ASME '77/S78 Section XI.

3.6 Records and Reports

A system of records of the supplemental inspection, plans, schedules and calibration standards; the examination results and reports, the corrective action required and taken, will be developed and maintained at the site in accordance with Article IWA 6000 of ASME '77/S78 Section XI.

3.7 Personnel Qualification Requirements

Personnel performing nondestructive examination operations shall be qualified with procedures prepared in accordance with SNT-TC-1A, 1975/1980 Edition, for the applicable examination technique and methods as required by Article IWA 2300 of ASME '77/S78 Section XI. All examinations shall be performed and the results evaluated by qualified nondestructive examiners Level II and Level III.

3.8 Program Plan Attachments

The specific examination requirements for the Supplemental Examinations are defined in the attachments. Each weld is designated by a unique identification number along with the examination category, method, and calibration standard number, if required for ultrasonic examinations.

The Procedure Identification Column has been intentionally left blank. The procedures listed in Table 3.4 are YAEC procedures; however, the actual procedures utilized (i.e., YAEC, NHY, PSNH, Vendor, etc.) will be identified later.

3.9 System Isometrics and Sketches

The piping weld map drawings show the piping for the plant systems, delineating the identification of welds subject to examination.

TABLE 3.4

Reference NDE Procedures

<u>Number</u>	<u>Procedure Title</u>
YA-UT-1	- Ultrasonic Examination -General Requirements
YA-UT-18	- Ultrasonic Examination of Austenitic Stainless Steel Piping Welds For Seabrook Station - Class 2 Supplemental Examination Program (SEPP)
YA-UT-19	- Component Profile Procedure Using The Pulse Echo Ultrasonic Technique
YA-PE-2	- Liquid Penetrant Examination

Note: Other Yankee Atomic Electric NDE Procedures may be used with approval of YAEC Level III.

TABLE 3.5
Calibration Standards

<u>Designation</u>	<u>Size</u>	<u>Material</u>
SB-3-40-ss	3" Schedule 40	SA-312 tp 304
SB-3-80-ss	3" Schedule 80	SA-312 tp 304
SB-3-160-ss	3" Schedule 160	SA-376 tp 316
SB-4-40-ss	4" Schedule 40	SA-312 tp 304
SB-4-80-ss	4" Schedule 80	SA-376 tp 316
SB-4-160-ss	4" Schedule 160	SA-376 tp 316
SB-6-40-ss	6" Schedule 40	SA-312 tp 304
SB-8-40-ss	8" Schedule 40	SA-312 tp 304
SB-10-40-ss	10" Schedule 40	SA-312 tp 304
SB-12-40-ss	12" Schedule 40	SA-312 tp 304
SB-14-40-ss	14" Schedule 40	SA-358 tp 304
SB-16-40-ss	16" Schedule 40	SA-358 tp 304

(ATTACHMENT A)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
1-RMW-114	36					
1-RMW-114 2"	36	36	-	-	Socket	6

Line - RMW-114

(ATTACHMENT A)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
1114-F0201	2" Pipe to 90° E11		N/A	CF-1	C5.30	
1114-F0208	2" Pipe to Valve 2" V49		N/A	CF-1	C5.30	
1114-F0103	2" Pipe to 90° E11		N/A	CF-1	C5.30	
1114-F0116	2" Pipe to 90° E11		N/A	CF-1	C5.30	
1114-F0305	2" Pipe to Valve 2" V37		N/A	CF-1	C5.30	
1114-F0310	2" Pipe to Tee		N/A	CF-1	C5.30	



(AW) DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT


X DENOTES: HANGER / SUPPORT

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

7/. DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U. E. & C. 9763-1-RMW-114-01
9763-1-RMW-114-02
9763-1-RMW-114-03
9763-805012 P&ID
9763-805014 P&ID

REV.	DESCRIPTION	PREP.	CHECKED	APPROVED	DRAWN REVIEW
 <div style="margin-left: 20px;"> <p align="center">YANKEE ATOMIC ELECTRIC COMPANY</p> <p>20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS</p> <hr/> <p align="center">NUCLEAR SERVICES DIVISION</p> </div>					
<h1>SEABROOK STATION UNIT I</h1>					
<h2>SUPPLEMENTAL EXAMINATIONS - WELD MAP</h2> <h3>LINE RMW-11A</h3>					

DESIGNED BY	DATE	CHECKED BY	DATE	ENG APPROVAL	DATE	DRAWN REVISION	DATE
P. CARTER	7-25-85	T. HAWKELL	8-22-85	R. JEFFERY	8-22-85	J.T.I.-m	8-23-
(ORIGINAL AND REV DATE)		AUTHORING NO.		PLANT	ENG DESG	CATEGORY	CHECKED
				I-RMW-11A-G-E			

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*SI-201	6					
*SI-201 10"	6	5	1	—	Butt	2

SYSTEM Safety Injection

SEPP

REV: 0 PAGE 2 of 42

Line - SI-201

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
SI-201-1-1	10" Nozzle to Accum. Tank		SB-10-40-SS	CF-1	C5.51	
SI-201-1-3	10" Pipe to 90° Ell		SB-10-40-SS	CF-1	C5.51	

CL. 1
CL. 2

ACCUMULATOR
TANK
GA

SI-201-1-601-10th

201-1-3

1-1-100

NOTES:

TECH (AMPL EYE IDENTIFICATION WELD / HANGE

WAVE THE DRESS ST-301

- 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

Y. HANCOFF

-----EXEMPT LINE

REFERENCE DWG.

U R A C 80000-10000

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

2000

— 11 —

SUPPLEMENTAL EXAMINATIONS—WELD M

100

CONTRACTED BY	DATE	CONTRACT NO.	DATE	PROD. APPROVAL	DATE	DETAIL REVIEW
CARTER	10/15/67	10-15-67-001	10/15/67	10/15/67	10/15/67	10/15/67
RENNELL	10/15/67	10-15-67-001	10/15/67	10/15/67	10/15/67	10/15/67

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
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*SI-202	6					
*SI-202 10"	6	5	1	—	Butt	2

SYSTEM Safety Injection

SEPP

REV: 0 PAGE 5 of 42

Line - SI-202

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
SI-202-1-1	10" Nozzle to Accum. Tak 9B			CF-1	C5.21	
SI-202-1-3	10" Pipe to 90° EL			CF-1	C5.21	

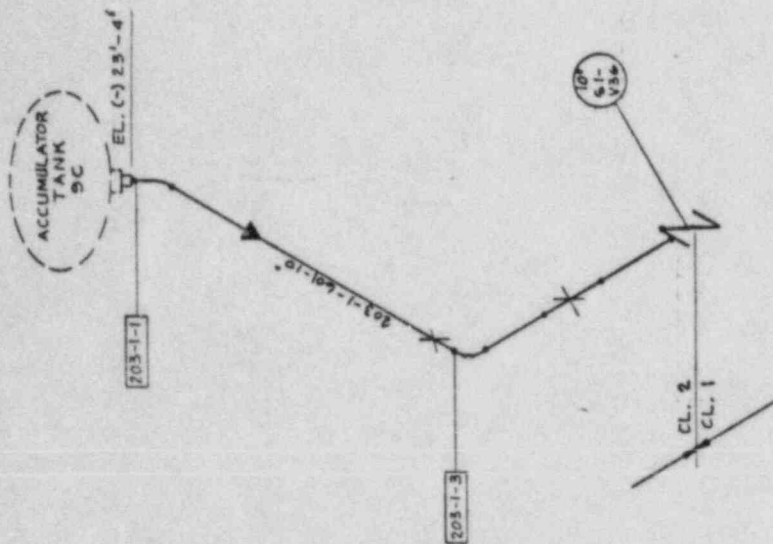
(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*SI-203	7					
*SI-203 10"	7	6	1	—	Butt	2

Line - SI-203

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* SI-203-1-1	10" Nozzle to Accum. Tank 9C		SB-10-40-SS	CF-1	C5.51	
* SI-203-1-3	10" Pipe to 90° Ell		SB-10-40-SS	CF-1	C5.51	



NOTES:

FOR COMPLETE IDENTIFICATION WELD CHANGES
HAVE THE PREFIX SI -03

- — BUTT WELD (SHOP OR FIELD)
- X — HANGER
- — EXEMPT LINE

REFERENCE DWG.

U. E. 4 C. 800203 ISI

[illegible]

SYSTEM Safety Injection

SEPP

Rev. 0 Page 10 of 42

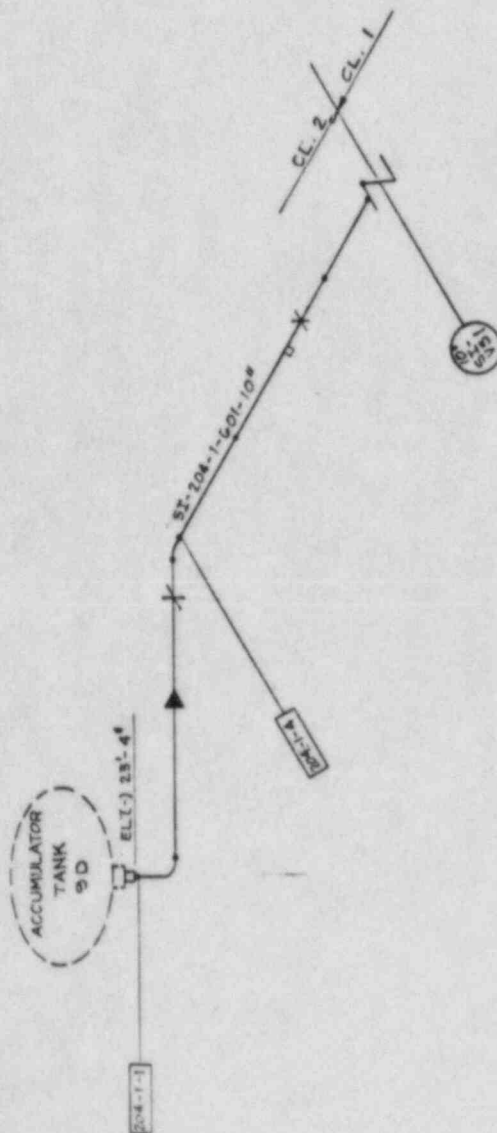
(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*SI-204	7					
*SI-204 10"	7	6	1	--	Butt	2

Line - SI-204

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* SI-204-1-1	10" Nozzle to Accum. Tank 9D		SB-10-40-SS	CF-1	C5.51	
* SI-204-1-4	10" 90° Ell to Pipe		SB-10-40-SS	CF-1	C5.51	



NOTES:

FOR COMPLETE IDENTIFICATION WELD & HANGERS
HAVE THE PREFIX SI-204

• —BUTT WELD SHOP OR FIELD

Y --HANGER

--- EXEMPT LINE

REFERENCE DWG.

U. E. & C. 80024 ISI

[illegible]

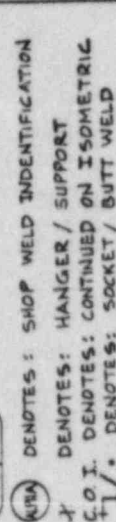
(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-250	67					
SI-250 4"	48	46	2	-	Butt	8
SI-250 3"	2	1	1	-	Butt	1
SI-250 2"	17	17		-	Socket	3

Line - SI-250

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
S.W. - "E"	4" Pipe to 90° Ell		SB-3-80-SS	CF-1	C5.21	
S.W. - "B"	4" Pipe to Reducer		SB-3-80-SS	CF-1	C5.21	
250-F0101	4" Pipe to Valve V-96		SB-4-80-SS	CF-1	C5.21	
250-F0201	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "D"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "G"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
250-F0501	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
250-F0506	4" Pipe to Valve V-102 & Penetration (T.E.)		SB-4-80-SS	CF-1	C5.21	
250-F0601	4" Pipe to Penetration X25 (T.E.)		SB-4-80-SS	CF-1	C5.21	
S.W. - "F"	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	
S.W. - "J"	4" Pipe to Reducer		SB-4-80-SS	CF-1	C5.21	
250-F0301	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
250-F1202	2" Pipe to 90° Ell		N/A	CF-1	C5.21	
250-F1229	2" Pipe to Union		N/A	CF-1	C5.21	
250-F1214	2" Pipe to Flange		N/A	CF-1	C5.21	
(Later)	3" Pipe to Flange SI-P-6A (T.E.)		N/A	CF-1	C5.21	



REFERENCE DWGS.

U. E. 4 C. 9763-1-SI-250-01
9763-1-SI-250-02
9763-1-SI-250-03
9763-1-SI-250-04
9763-1-SI-250-05
9763-1-SI-250-06
9763-1-SI-250-12
9763-80501 P4 ID

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
WESTBORO MASS 01581 U.S.A.

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP
LINE SI-250

CHARGED BY	DATE	CHARGE OFFICER	DATE	FILE APPROVAL	DATE	CHARGE NUMBER	DATE
PCASTER	7-29-57	REAMELL	8-2-57	REAMELL	8-2-57	731	8-2-57

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 1-22-2000 BY 60322 UCBAW

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-251	86					
SI-251 4"	74	59	1	-	Butt	9
SI-251 3"	2	1	1	-	Butt	1
SI-251 2"	10	10	-	-	Socket	1

Line - SI-251

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
S.W. - "B"	3" Pipe to Pump S1-P-6B (T.E.)		SB-3-80-SS	CF-1	C5.21	
S.W. - "D"	3" Pipe to Reducer		SB-3-80-SS	CF-1	C5.21	
251-F0103	4" Pipe to Valve V-72		SB-4-80-SS	CF-1	C5.21	
S.W. - "K"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "L"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
251-F0401	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
251-F0501	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "D"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
251-F0701	4" Pipe to Penetration X26 (T.E.)		SB-4-160-SS	CF-1	C5.21	
S.W. - "C"	4" Pipe to Tee		SB-4-160-SS	CF-1	C5.21	
S.W. - "F"	4" Pipe to Reducer		SB-4-160-SS	CF-1	C5.21	
251-F0603	4" Pipe to 90° Ell		SB-4-160-SS	CF-1	C5.21	
251-F1105	2" Pipe to Valve V-80		N/A	CF-1	C5.20	



X DENOTES: HANGER/SUPPORT
C.O.I. DENOTES: CONTINUED ON ISOMETRIC
1/• DENOTES: SOCKET/BUTT WELD

REFERENCE DWGS.

U. E. & C. 9763-1-5I-251-01
9763-1-5I-251-02
9763-1-5I-251-03
9763-1-5I-251-04
9763-1-5I-251-05
9763-1-5I-251-06
9763-1-5I-251-07
9763-1-5I-251-08
9763-1-5I-251-09
9763-1-5I-251-10
9763-1-5I-251-11
9763-805010 P & ID

[illegible]

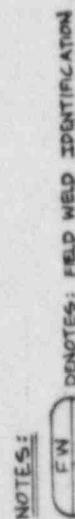
(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-256	59					
SI-256 4"	42	36	2	-	Butt	7
SI-256 2"	11	11	-	-	Socket	2
SI-256 3/4"	6	6	-	-	Socket	N/A

Line - SI-256

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
256-F0103	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
256-F0102	4" Pipe to Valve V-112		SB-4-80-SS	CF-1	C5.21	
S.W. - "E"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
256-F0309	4" Pipe to Valve V-114 (T.E.)		SB-4-80-SS	CF-1	C5.21	
256-F0703	4" Pipe at Penetration X27-01 (T.E.)		SB-4-80-SS	CF-1	C5.21	
256-F0701	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "F"	4" Pipe to Reducer		SB-4-80-SS	CF-1	C5.21	
S.W. - "C"	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	
S.W. - "D"	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	
256-F0403	2" Pipe to Valve V130		N/A	CF-1	C5.30	
256-F0404	2" Pipe to Tee		N/A	CF-1	C5.30	



Ⓐ DENOTE 4: SHOP WELD IDENTIFICATION

○ X DENOTES: HANGER / SUPPORT

X DENOTES: RANGES / DIFFERS
C.D. I. DENOTES: CONTINUED ON ISOMETRIC

† • DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS:

U. E. C. 9763-1-51-256-01
9763-1-51-256-02
9763-1-51-256-03
9763-1-51-256-04
9763-1-51-256-05
9763-1-51-256-06
9763-1-51-256-07
9763-60510 PÉID

[illegible]

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-257	14					
SI-257 4"	14	13	-	-	Butt	3

SYSTEM Safety Injection

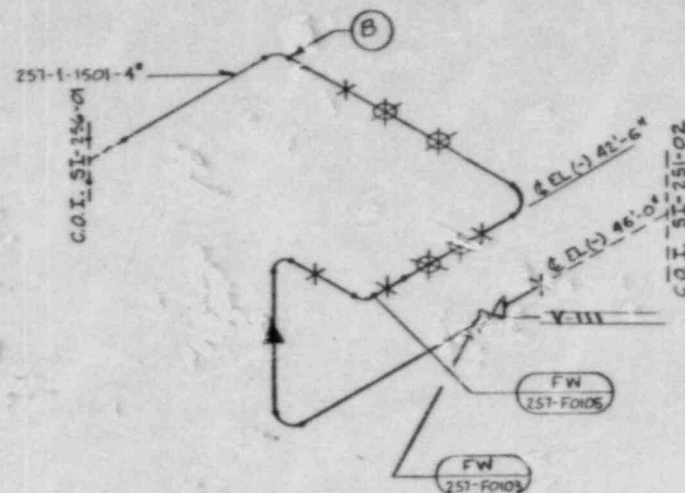
SEPP

REV: 0 PAGE 23 of 42

Line - SI-257

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
257-F0103	4" Pipe to Valve V111		SB-4-80-SS	CF-1	C5.21	
257-F0105	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "B"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	



NOTES

- FW** DENOTES: FIELD WELD IDENTIFICATION
- ALMA** DENOTES: SHOP WELD IDENTIFICATION
- X** DENOTES: HANGER/SUPPORT
- C.O.I.** DENOTES: CONTINUED ON ISOMETRIC
- 7/** DENOTES: SOCKET/BUTT WELD

REFERENCE DWGS.

U.E. & C. 9763-1-SI-257-01
9763-1-SI-257-02
9763-805010 P&ID

REV.	DESCRIPTION	PREP.	CHKD.	APPD.	DATE

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD, WESTBORO, MASSACHUSETTS
NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS- WELD MAP
LINE SI-257

DESIGNED BY	DATE	CHECKED BY	DATE	ENCL. APPROVAL	DATE	ISSUED REVIEW	DATE
P. CARTER	7-10-85	T. RENAIK	8-22-85	DA JEFFER	8-22-85	DJ-100	8-22-85

1-SI-257-SE

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-258	23					
SI-258 2"	23	23	-	-	Socket	4

SYSTEM Safety Injection

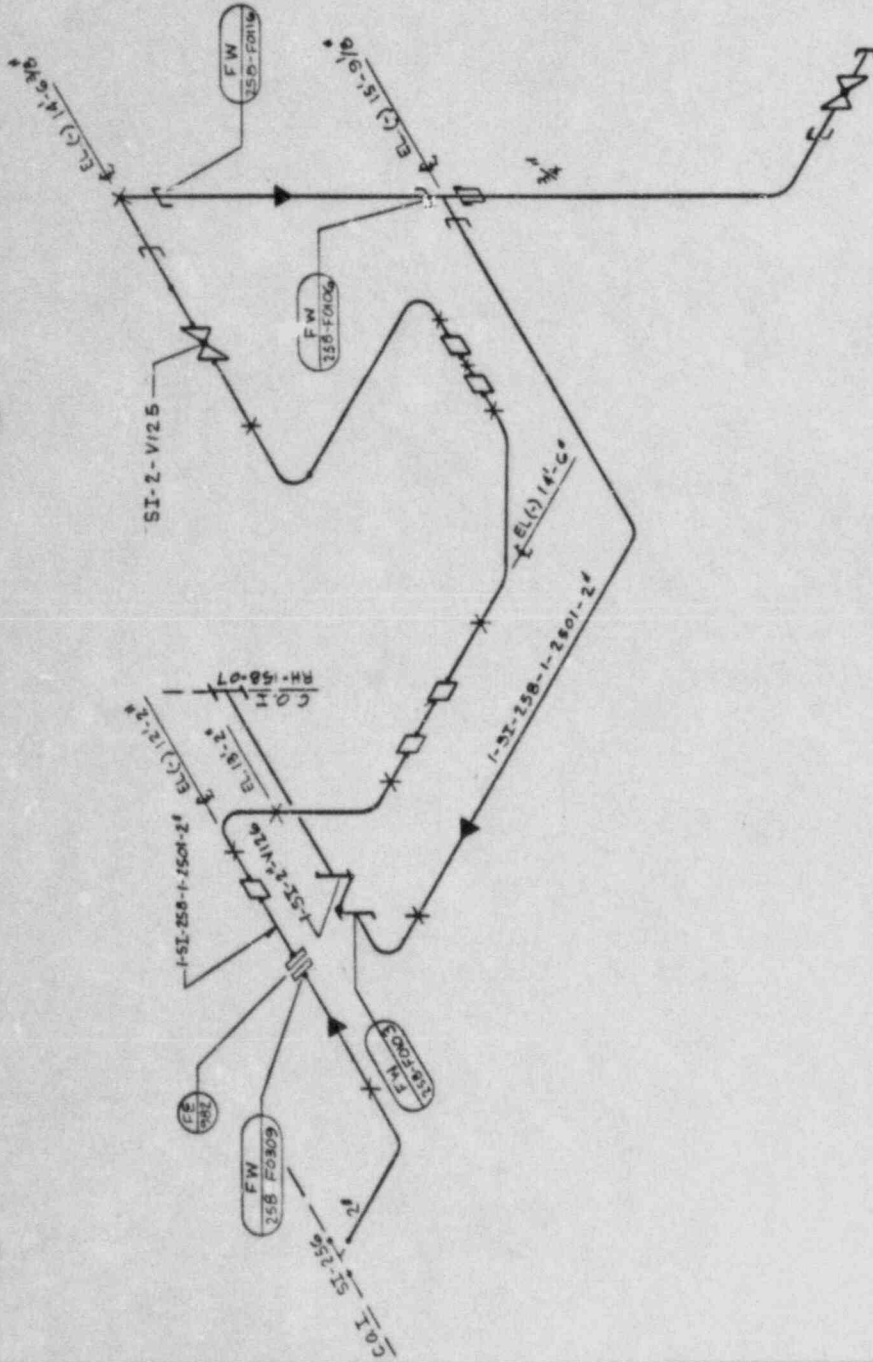
SEPP

REV: 0 PAGE 26 of 42

Line - SI-258

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
258-F0309	2" Pipe Flange FE-982		N/A	CF-1	C5.30	
258-F0106	2" Pipe to Tee		N/A	CF-1	C5.30	
258-F0103	2" Pipe to Valve - 216		N/A	CF-1	C5.30	
258-F0116	2" Pipe to 90° Ell		N/A	CF-1	C5.30	



NOTES:

FW
X X

WRA

DENOTES: FIELD WELD IDENTIFICATION

DENOTES: SHOP WELD IDENTIFICATION

DENOTES: HANGER / SUPPORT

DENOTES: CONTINUED ON ISOMETRIC

DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U. E. & C. 9763-1-SI-258-01

9763-1-SI-258-02

9763-1-SI-258-03

9763-805010 P&ID



YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS-WELD MAP
LINE SI-258

DATE	1/18/81	BY	W. J. CARLSON	DATE	1/18/81	BY	W. J. CARLSON
REVISION	1	DESCRIPTION	1-SI-258-SE	REVISION	1	DESCRIPTION	1-SI-258-SE

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-259	30					
SI-259 4"	5	5	-	-	Butt	1
SI-259 2"	25	25	-	-	Socket	4

Line - SI-259

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
259-F0108	2" Pipe to Valve C-122		N/A	CF-1	C5.30	
259-F0116	2" Pipe to Tee		N/A	CF-1	C5.30	
259-F0204	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
259-F0206	2" Pipe to Union		N/A	CF-1	C5.30	
S.W. - "C"	4" Pipe to Tee		SB-4-160-SS	CF-1	C5.21	

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-260	24	24	-	-	Socket	4
SI-260 2"	24				Socket	

SYSTEM Safety InjectionSEPPREV: 0 PAGE 32 of 42Line - SI-260

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
260-F0207	2" Pipe to Union		N/A	CF-1	C5.30	
260-F0201	2" Pipe to Flange/FE-980		N/A	CF-1	C5.30	
260-F0104	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
260-F0108	2" Pipe to Tee		N/A	CF-1	C5.30	



9763-805010 P&ID

45 JULY 1999

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-261	6					
SI-261 2"	6	6	-	-	Socket	1

SYSTEM Safety Injection

Line - SI-261

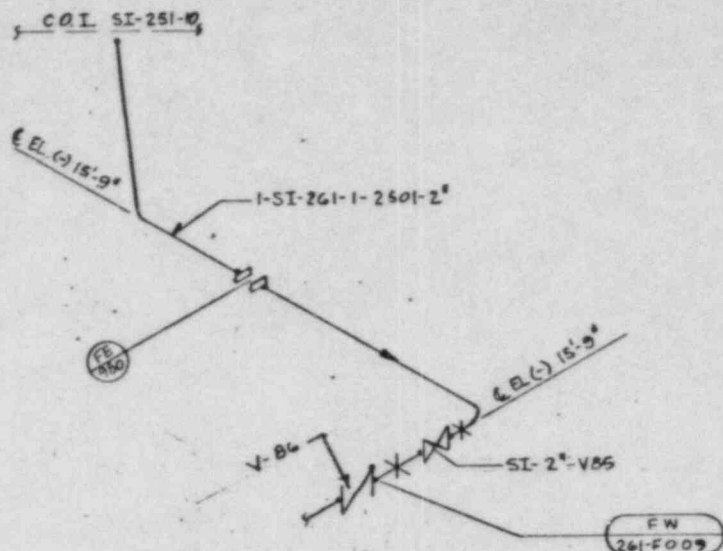
SEPP

REV: _____ 0 _____ PAGE

35 of 42

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
261-F0109	2" Pipe to SI-2" V86		N/A	CF-1	C5.30	



NOTES:

FW
XX DENOTES: FIELD WELD IDENTIFICATION

WMA DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER/SUPPORT

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

+/- DENOTES: SOCKET/BUTT WELD

REFERENCE DWGS.

U.E. & C. 9763-1-SI-261-01

9763-805010 P&ID

REV.	DESCRIPTION	PREP.	CHGD.	APPD.	DATE

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD, WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP
LINE SI-261

DESIGNED BY	DATE	CHECKED BY	DATE	ENG. APPROVAL	DATE	SEAL NO.	SEAL
P. CARTER	7-6-85	T. RICHARD	8-22-85	R. J. RICHARD	8-22-85	DJ Jones	1-1
ORIGINAL SCALE	1"	ACCOUNT NO.	1-1	PLANT	DATE	CATEGORY	DATE

1-SI-261-SE

(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-270	16					
SI-270 2"	16	14	-	-	Socket	3

SYSTEM Safety Injection

SEPP

REV: 0 PAGE 38 of 42

Line - SI-270

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
270-F0105	2" Pipe to SI-2" V110		N/A	CF-1	C5.30	
270-F0202	2" Pipe to SI-2" V109		N/A	CF-1	C5.30	
270-F0301	2" Pipe to FE-984		N/A	CF-1	C5.30	



(ALPHA) DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT

C.O.I. DENOTES: CONTINUED ON I

C.O. I. DENOTES: CONTINUED ON ISOMETRIC

7/• DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.


U.E. & C. 9763-1-SI-270-01

9763-1-SI-270-02

9763-1-SI-270-03

9763-805010 P 4

REV	DESCRIPTION				PREP	CHKD.	APPD.	OGR REVIEW	

 YANKEE ATOMIC ELECTRIC COMPANY 20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS NUCLEAR SERVICES DIVISION									
SEABROOK STATION UNIT 1									
SUPPLEMENTAL EXAMINATIONS- WELD MA									
LINE SI-270									

CHECKED BY	DATE	CHECKED BY	DATE	FINAL APPROVAL	DATE	CHECK REVIEW			
P. CARTER	7-17-85	T. HENRIKSEN	8-27-85	P.A. Sefton (P.D.)	8-27-85	D.J. Jones			
ORIGINAL WORK DATE		WORKDAY NO.		PLANT	CHECK RATE	CAPT. REVIEW		CROSS NO.	
				1-SI-270-5E					

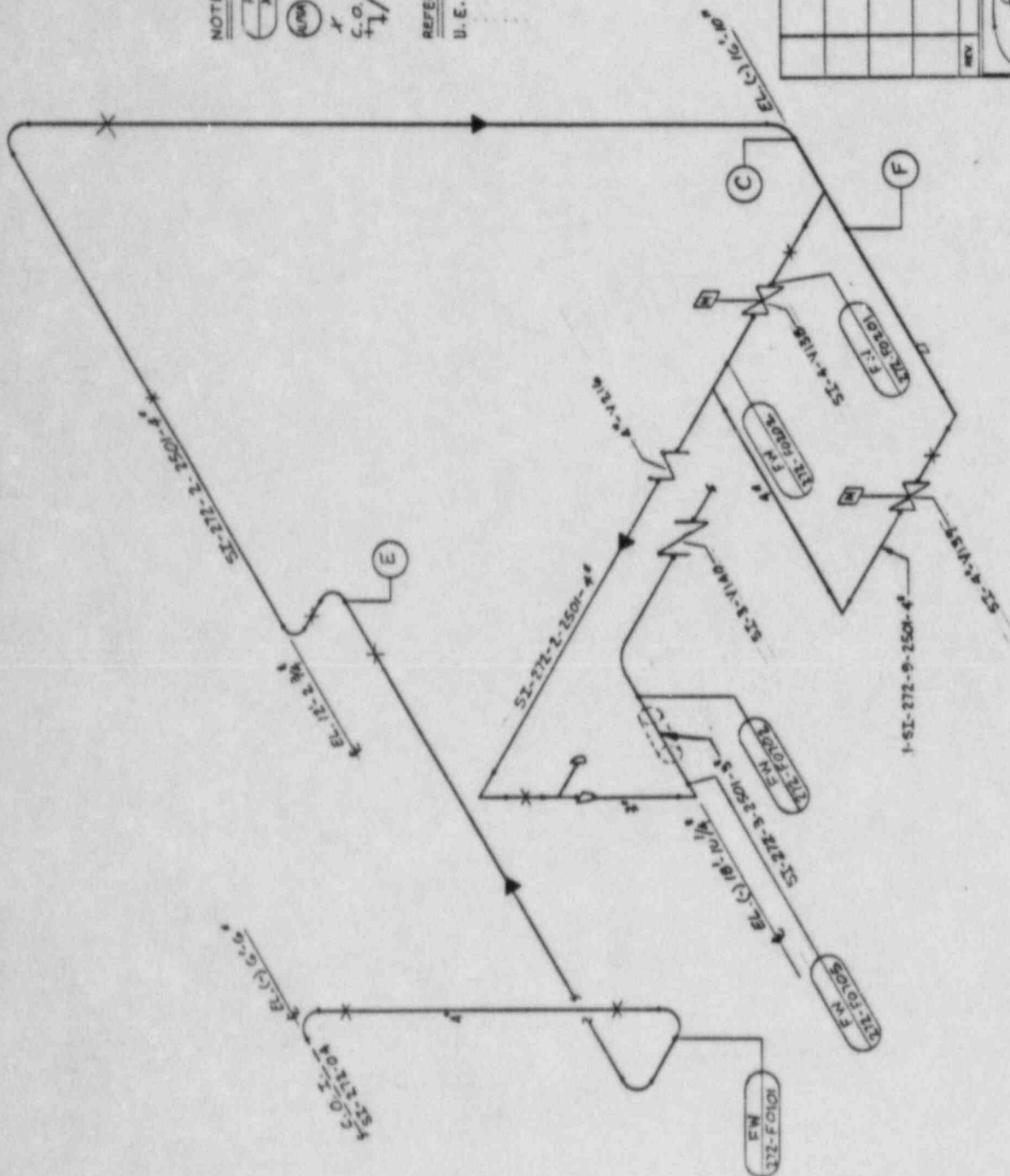
(ATTACHMENT B)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
SI-272						
SI-272 3"	6	5	-	-	Butt	2
SI-272 4"	33	33	-	-	Butt	6

Line - SI-272

(ATTACHMENT B)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
272-F0705	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
272-F0702	3" Pipe to 90° Bend		SB-3-160-SS	CF-1	C5.21	
272-F0202	4" Pipe to Tee		SB-4-160-SS	CF-1	C5.21	
272-F0101	4" Pipe to 90° Ell		SB-4-160-SS	CF-1	C5.21	
S.W. "C"	4" Pipe to Tee		SB-4-160-SS	CF-1	C5.21	
S.W. "E"	4" Pipe to 90° Ell		SB-4-160-SS	CF-1	C5.21	
S.W. "F"	4" Pipe to Tee		SB-4-160-SS	CF-1	C5.21	
272-F0201	4" Pipe to Valve V-138		SB-4-160-SS	CF-1	C5.21	



NOTES:

YK	YK
YK	YK

⑤

DENOTES: SHOP WELD IDENTIFICATION

4

DENOTES: HANGER / SUPPORT

0.7

DENOTES: CONTINUED ON ISOMETRIC

11

REMARKS: SOCKET/ BUTT WELD

REFERENCE DWGS.

U.E. & C. 9763-1-SI-272-01

9763-1-SI-272-02

9763-1-SI-272-07

4763-805010 P410

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

MISSISSIPPI EXPERIMENTAL EXAMINATIONS—WELD MAP

LINE SI-272

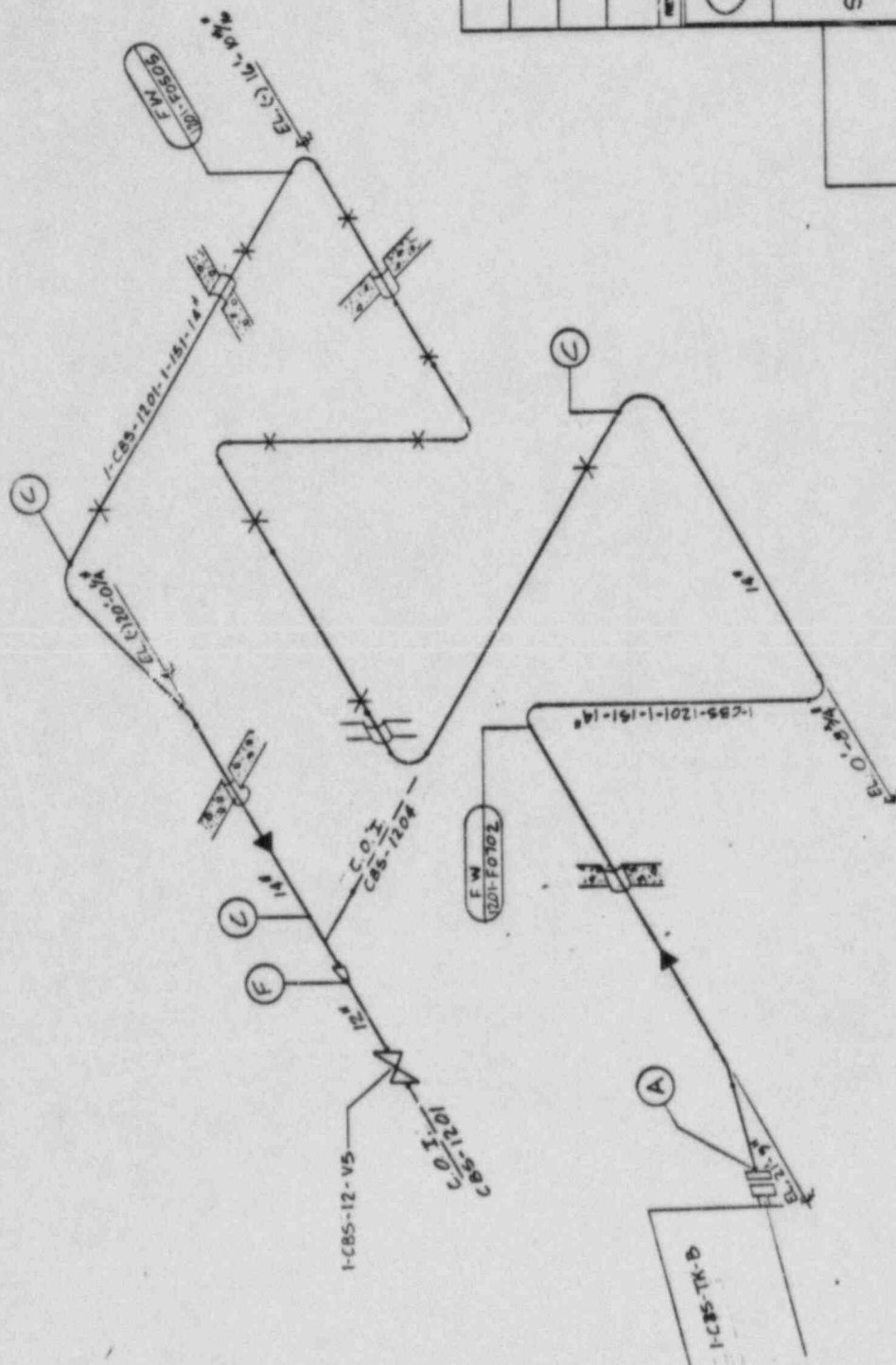
PREPARED BY P. CARTER	DATE 7 Nov 56	CHECKED BY T. HARRIS	DATE 12 Nov 56	DATE APPROVED 12 Nov 56	DATE 12 Nov 56	CLASS. BY D J Tack	DATE 12 Nov 56
(ORIGINAL FILED IN)		(FILED IN)		(FILED IN)		(FILED IN)	

(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CBS-1201	30					
CBS-1201 14"	28	25	1	-	Butt	5
CBS-1201 12"	2	2	-	-	Butt	1
*CBS-1201	19					
*CBS-1201 12"	19	18			Butt	3

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
1201-F07	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
S.W. - "A"	14" Pipe to CBS Tank 8 (T.E.)		SB-14-40-SS	CF-1	C5.11	
S.W. - "C"	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
1201-F0505	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
S.W. - "C"	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
S.W. - "C"	14" Pipe to Tee		SB-14-40-SS	CF-1	C5.11	
S.W. - "F"	12" Pipe to Reducer		SB-12-40-SS	CF-1	C5.11	
* CBS-1201-3-1	12" Valve V-5 to Pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1201-3-7	12" Tie to Pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1201-3-16	12" Pipe to 90° Ell		SB-12-40-SS	CF-1	C5.51	



NOTES:

FW	XX
----	----

DENOTES: FIELD WELD IDENTIFICATION

Ⓐ DENOTES: SHOP WELD IDENTIFICATION

X. DENOTES: HANGER / SUPPORT

C.O. I DENOTES: CONTINUED ON ISOMETRIC

7/. DENOTES; SOCKET / BUTT WELD

REFERENCE DWGS:

U. E. & C. 9763-

9763-805023 P410

[illegible]



FOR COMPLETE IDENTIFICATION WELD & HANGERS
HAVE THE PREFIX CBS-1210-

X - HANGER

REFERENCE DWG.

U. E. & C. 801201 ISI

1-1 AS-1201-SF

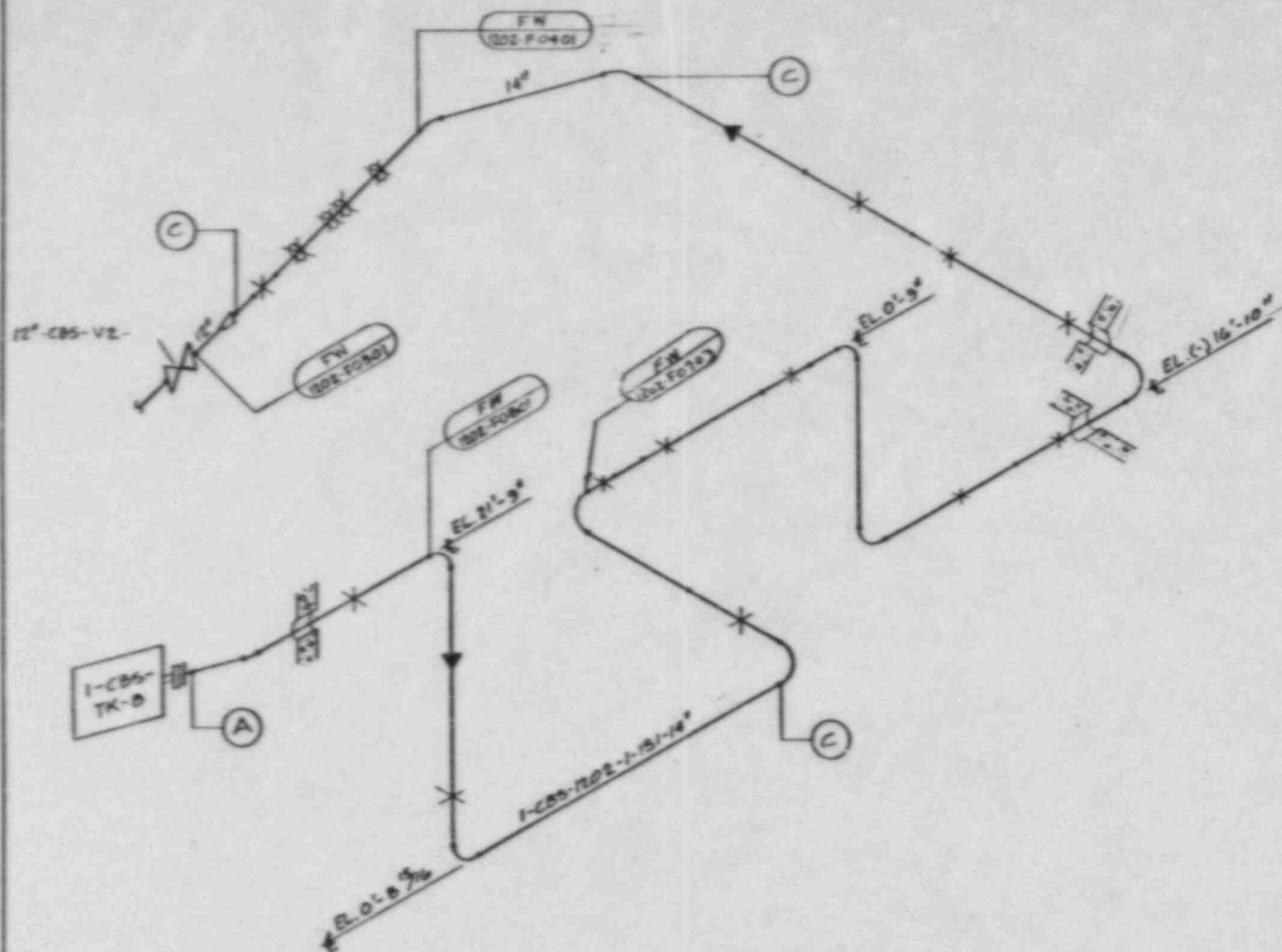
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CBS-1202	51					
CBS-1202 14"	32	27	1	-	Butt	6
CBS-1202 12"	2	2	-	-	Butt	1
*CBS-1202	17					
*CBS-1202 12"	17	14	-	-	Butt	3

Lir CBS-1202

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
1202-F0801	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
S.W. - "A"	14" Pipe to CBS Tank 8 (T.E.)		SB-14-40-SS	CF-1	C5.11	
S.W. - "C"	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
1202-F0703	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.11	
1202-F0401	14" Pipe to 45° Ell		SB-14-40-SS	CF-1	C5.11	
S.W. - "C"	14" Pipe to 45° Ell		SB-14-40-SS	CF-1	C5.11	
S.W. - "C"	14" Pipe to Reducer		SB-14-40-SS	CF-1	C5.11	
1202-F0301	12" Pipe to Valve 12" CBS-V2		SB-14-40-SS	CF-1	C5.11	
* CBS-1202-3-6	12" 90° Ell to pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1202-3-10	12" 90° Ell to pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1202-3-15	12" pipe to tie		SB-12-40-SS	CF-1	C5.51	



NOTES:

FW
XX DENOTES: FIELD WELD IDENTIFICATION

SW DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

1/* DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.:

U.E. & C. 9763-1-CBS-1202-03
9763-1-CBS-1202-04
9763-1-CBS-1202-07
9763-1-CBS-1202-08
9763-805023 P & ID

REV	DESCRIPTION	PREP	CHKD	APPD	DATE



YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS 01581

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

**SUPPLEMENTAL EXAMINATION - WELD MA
LINE CBS-1202**

DESIGNED BY	DATE	CHECKED BY	DATE	APP'D BY	DATE	DESIGN REVIEW
P. CARTER	7-26-80	T. RYAN	8-1-80	P. CARTER	8-1-80	D.J. J.
ORIGINAL DATE		REVISION NO.				

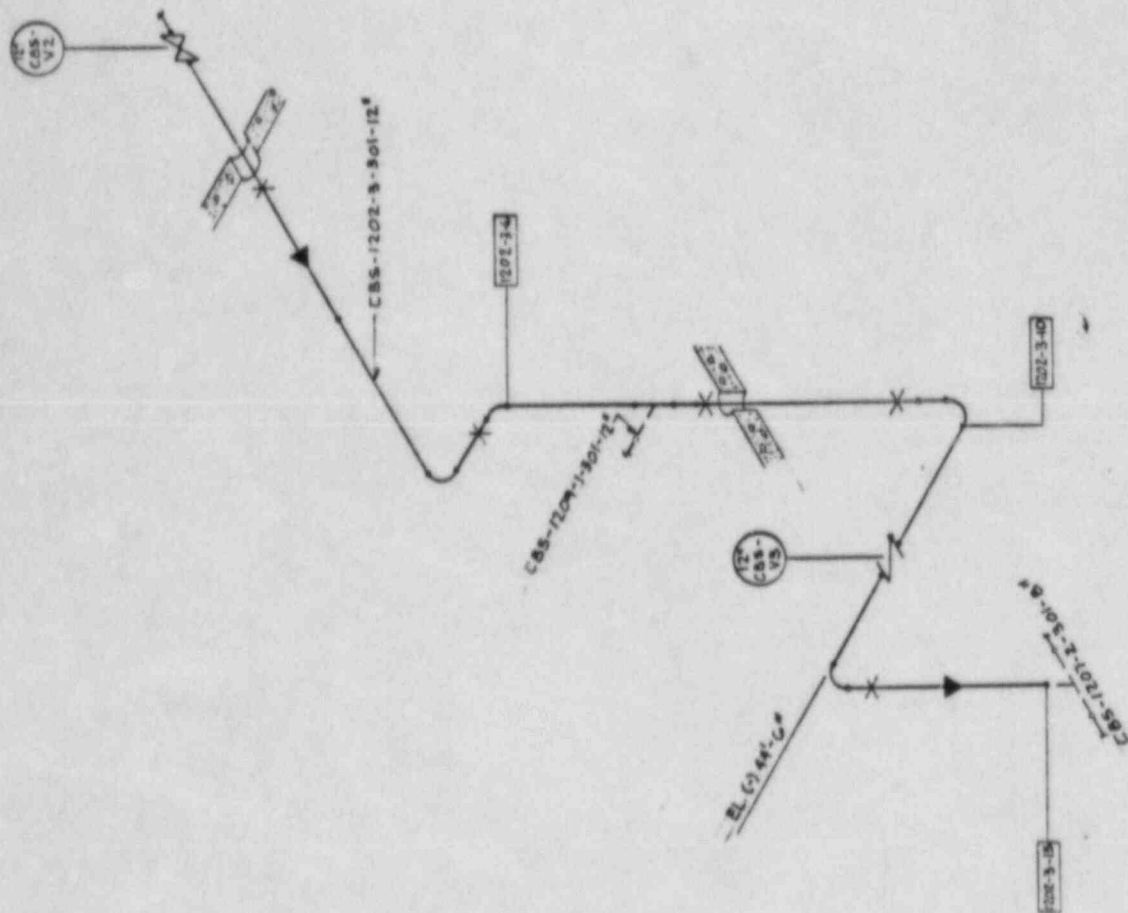
1-CBS-1202-SE

NOTES

FOR COMPLETE IDENTIFICATION WELD # HANGERS
HAVE THE PREFIX CBS-1202.

* --BUTT WELD (SHOP OR FIELD)
X --HANGER
- - - --EXEMPT LINE

REFERENCE DWG.
U.E. & C. 801202 ISI

[illegible]

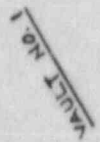
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1207	34					
*CBS-1207 16"	5	5	-	-	Butt	1
*CBS-1207 14"	9	9	-	-	Butt	2
*CBS-1207 12"	20	18	-	-	Butt	3

Line - CBS-1207

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1207-1-3	14" 90° Ell to Pipe		SB-14-40-SS	CF-1	C5.51	
* CBS-1207-1-8	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.51	
* CBS-1207-2-2	12" Pipe to Valve V-9		SB-14-40-SS	CF-1	C5.51	
* CBS-1207-2-4	12" Pipe to Tee		SB-14-40-SS	CF-1	C5.51	
* CBS-1207-2-15	12" 90° Ell to Pipe		SB-14-40-SS	CF-1	C5.51	
* CBS-1207-5-2	16" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.51	



U E. & C. 801207 ISI

ORGANIZATION NO	DATE	CHRG. RECD. BY	EXT. APPROVING	DATE	CHRG. RECD. BY	DATE
P. CARTER	10/25/55	P. CARROLL	R. A. LUTHER	10/25/55		
COMPL. NO. 10475			EXT. NO.		10475	
			EXT. NO.		10475	

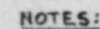
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1208	32					
*CBS-1208 16"	7	7	-	-	Butt	1
*CBS-1208 14"	8	7	-	-	Butt	1
*CBS-1208 12"	17	17	-	-	Butt	3

Line - CBS-1208

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1208-1-2	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.51	
* CBS-1208-2-3	12" Valve V-15 to Pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1208-2-5	12" Tee to Pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1208-2-10	12" Pipe to Flange		SB-12-40-SS	CF-1	C5.51	
* CBS-1208-5-1	16" Pipe to Tee		SB-16-40-SS	CF-1	C5.51	



- * -BUTT WELD (SHOP OR FIELD)
- X -HANGER
- --EXEMPT LINE

U.E. & C. 801208 ISI

[illegible]

(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CBS-1209	6					
CBS-1209 12"	6	6	-	-	Butt	1
*CBS-1209	8					
*CBS-1209 12"	8	8	-	-	Butt	2

SYSTEM Containment Bldg Spray

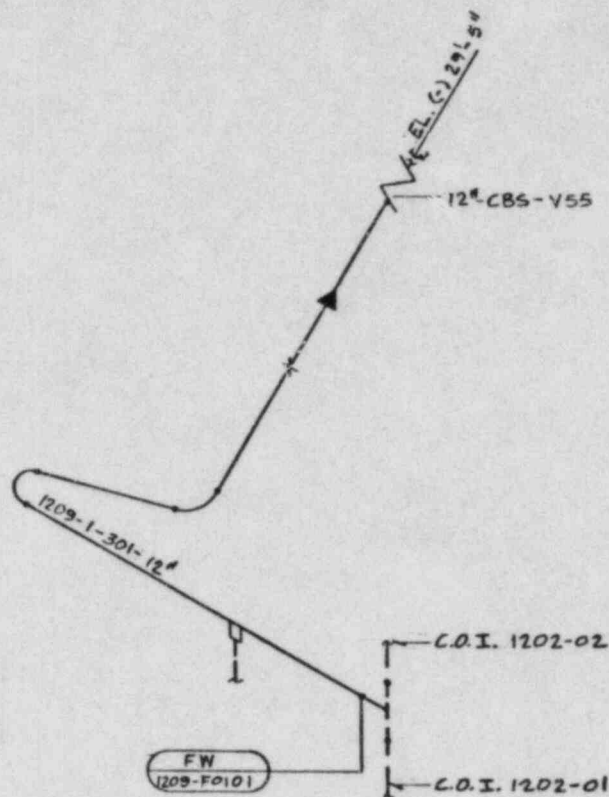
SEPP

Line-CBS-1209

REV: 0 PAGE 16 of 39

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
1209-F0101	12" Pipe to Tee		SB-12-40-SS	CF-1	C5.51	
* CBS-1209-1-2	12" Pipe to 90° Ell		SB-12-40-SS	CF-1	C5.51	
* CBS-1209-1-6	12" Pipe to Valve V-55		SB-12-40-SS	CF-1	C5.51	



FW
XX



7/ • DENOTES: SOCKET / BUTT WELD

9763-805012 P & ID

[illegible]

(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1210	12					
*CBS-1210 12"	12	10	-	-	Butt	2

SYSTEM Containment Bldg. Spray

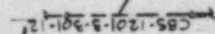
SEPP

REV: 0 PAGE 20 of 39

Line - CBS-1210

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1210-1-3	12" 90° Ell to Pipe		SB-12-40-SS	CF-1	C5.51	
* CBS-1210-2-1	12" Valve V-56 to Pipe		SB-12-40-SS	CF-1	C5.51	



U. E. 4 C.

[illegible]

(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1211	18					
*CBS-1211 16"	18	16	2	-	Butt	5

Line - CBS-1211

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1211-1-1	16" Choke Tube to Pipe (TE)		SB-16-40-SS	CF-1	C5.51	
* CBS-1211-1-2	16" Pipe to Penetration X61 (TE)		SB-16-40-SS	CF-1	C5.51	
* CBS-1211-2-2	16" Pipe to 90° Ell		SB-16-40-SS	CF-1	C5.51	
* CBS-1211-2-8	16" Pipe to 90° Ell		SB-16-40-SS	CF-1	C5.51	
* CBS-1211-2-12	16" Pipe to Valve V-26		SB-16-40-SS	CF-1	C5.51	



(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WRLDS SELECTED</u>
CBS-1212	21					
CBS-1212 16"	21	16	2	-	Butt	5

Line - CBS-1212

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1212-1-1	16" Choke Tube to Pipe (TE)		SB-16-40-SS	CF-1	C5.51	
* CBS-1212-1-2	16" Pipe to Penetration X60 (TE)		SB-16-40-SS	CF-1	C5.51	
* CBS-1212-2-1	16" Valve V-14 to Pipe		SB-16-40-SS	CF-1	C5.51	
* CBS-1212-2-4	16" Pipe to 90° Ell		SB-16-40-SS	CF-1	C5.51	
* CBS-1212-2-11	16" Pipe to Valve V-25		SS-16-40-SS	CF-1	C5.51	



U. E. & C. 801212 ISI

[illegible]

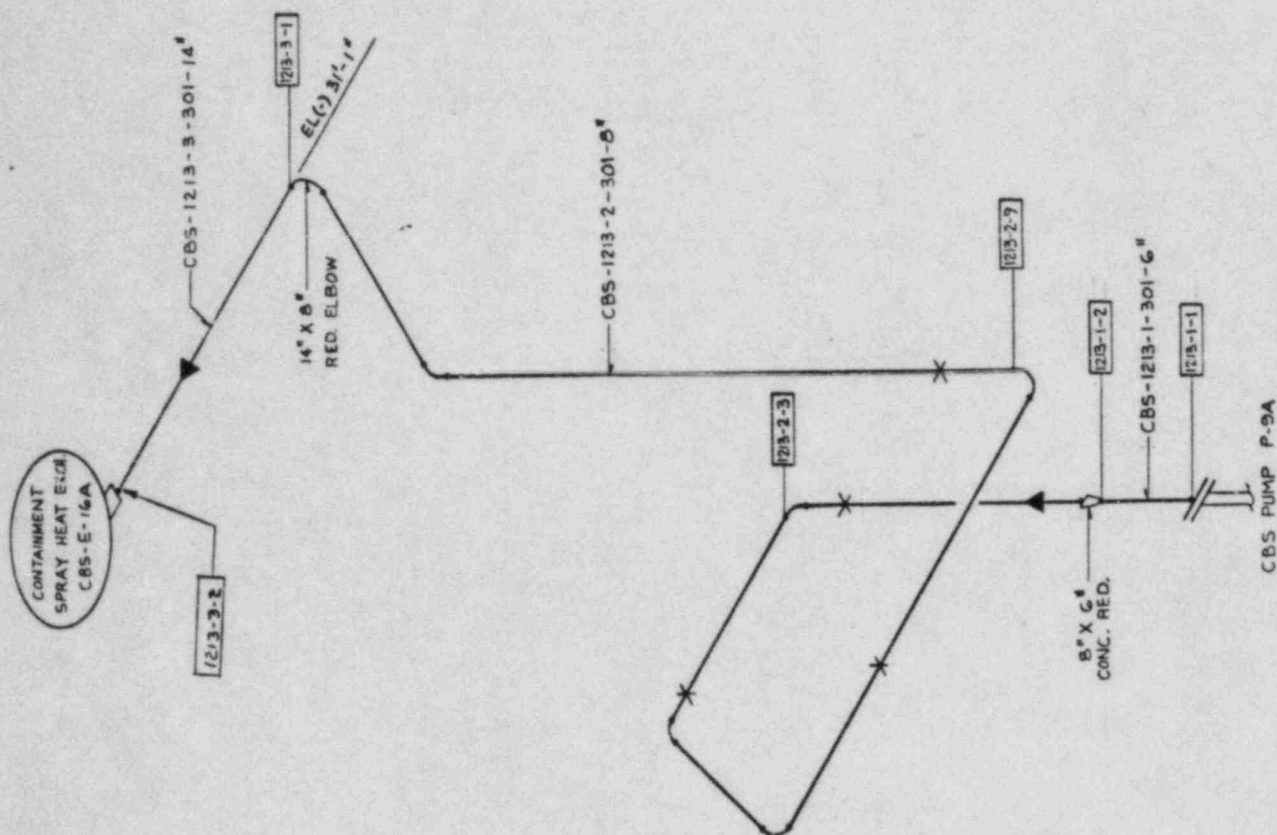
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1213	16					
*CBS-1213 14"	2	1	1	-	Butt	2
*CBS-1213 8"	12	12	-	-	Butt	2
*CBS-1213 6"	2	1	1	-	Butt	2

Line - CBS-1213

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1213-1-1	6" Pipe to Pump P-9A (TE)		SB-6-40-SS	CF-1	C5.51	
* CBS-1213-1-2	6" Pipe to Reducer		SB-6-40-SS	CF-1	C5.51	
* CBS-1213-2-3	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
* CBS-1213-2-9	8" 90° Ell to Pipe		SB-8-40-SS	CF-1	C5.51	
* CBS-1213-3-1	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.51	
* CBS-1213-3-2	14" Pipe to HX E-16A (TE)		SB-14-40-SS	CF-1	C5.21	



NOTES:

FOR COMPLETE IDENTIFICATION WELD & HANGERS
HAVE THE PREFIX CBS-1215-

- - BUTT WELD (SHOP OR FIELD)
- - HANGER
- - EXEMPT LINE

REFERENCE DWG.

U. E. & C. 801213 ISY

[illegible]

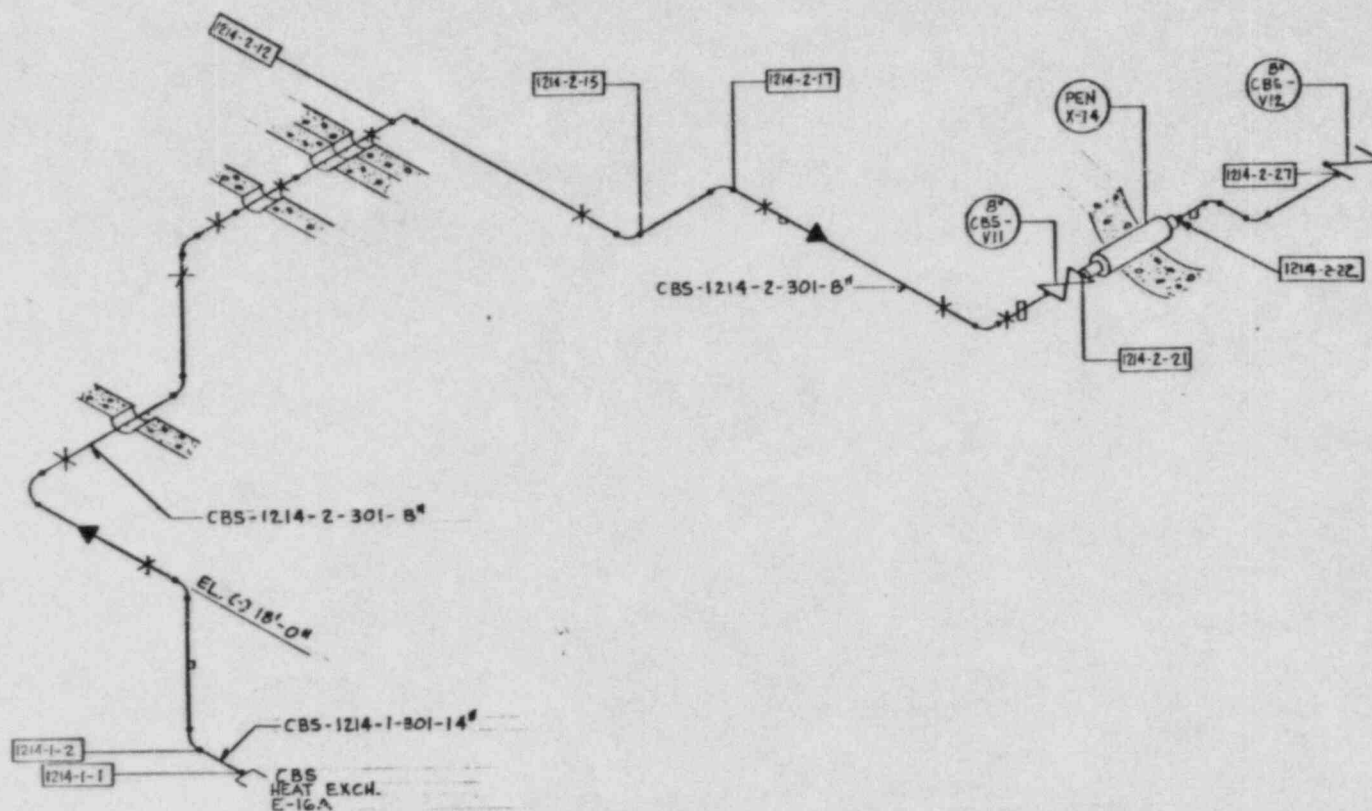
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1214	29					
*CBS-1214 14"	2	1	1	-	Butt	2
*CBS-1214 8"	27	25	2	-	Butt	5

Line - CBS-1214

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1214-1-1	14" Pipe to HX E-16A (TE)		SB-14-40-SS	CF-1	C5.51	
* CBS-1214-1-2	14" Pipe to Reducer E11		SB-14-40-SS	CF-1	C5.51	
* CBS-1214-2-12	8" Pipe to 90° E11		SB-8-40-SS	CF-1	C5.51	
* CBS-1214-2-15	8" Pipe to 90° E11		SB-8-40-SS	CF-1	C5.51	
* CBS-1214-2-21	8" Pipe to Valve V-11 (TE)		SB-8-40-SS	CF-1	C5.51	
* CBS-1214-2-22	8" Pipe to Penetration X14 (TE)		SB-8-40-SS	CF-1	C5.51	
* CBS-1214-2-27	8" Pipe to Valve V-12		SB-8-40-SS	CF-1	C5.51	



NOTES:

FOR COMPLETE IDENTIFICATION WELD & HANGERS
HAVE THE PREFIX CBS-1214-

- - BUTT WELD (SHOP OR FIELD)
- X - HANGER
- - EXEMPT LINE

REFERENCE DWG.

U. E. & C. 801214 ISI

REV.	DESCRIPTION	PREP.	CHECKED	APPROVED	DATE RECEIVED
	YANKEE ATOMIC ELECTRIC COMPANY				
	20 TURNPIKE ROAD,				
		WESTBORO, MASSACHUSETTS			
	NUCLEAR SERVICES DIVISION				
	SEABROOK STATION UNIT !				
	SUPPLEMENTAL EXAMINATIONS-WELD M				
	LINE CBS-1214				

DRAWN BY:	DATE	CHECKED BY:	DATE	ENGR. APPROVAL:	DATE	DESIGN REVIEW:	DATE
P. CARTER	8-20-86	T. RENNELL	8-21-86	R.A. Jeremy	9/17/86	JCU	
(ORIGINAL OWNER DATE)		REWORKED BY:		PLANT	CBS REV.	CAT. REVISION	FORM NO.

1-CBS-1214-SE

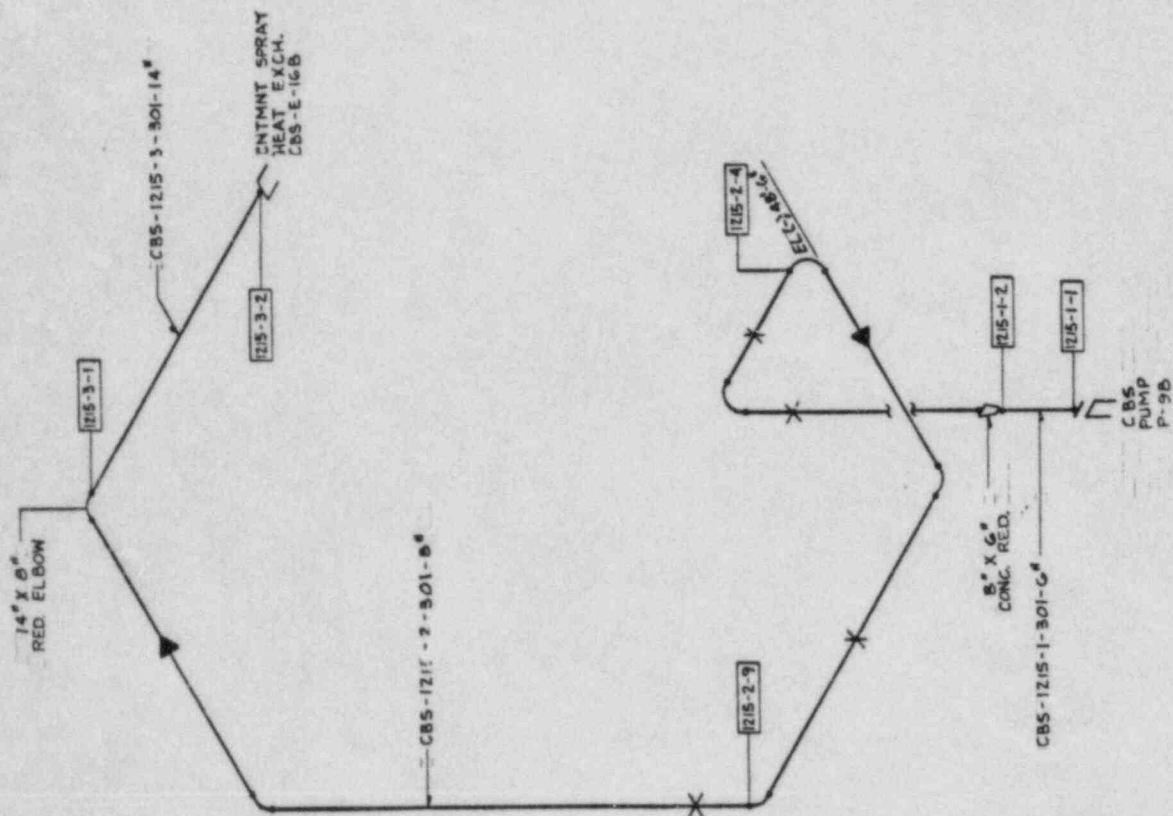
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1215	16					
*CBS-1215 14"	2	1	1	-	Butt	2
*CBS-1215 8"	12	12	-	-	Butt	2
*CBS-1215 6"	2	1	1	-	Butt	2

Line - CBS-1215

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1215-1-1	6" Pipe to Pump P-9B (TE)		SB-6-40-SS	CF-1	C5.51	
* CBS-1215-1-2	6" Pipe to Reducer		SB-6-40-SS	CF-1	C5.51	
* CBS-1215-2-4	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
* CBS-1215-2-9	8" 90° Ell to Pipe		SB-8-40-SS	CF-1	C5.51	
* CBS-1215-3-1	14" Pipe to 90° Ell		SB-14-40-SS	CF-1	C5.51	
* CBS-1215-3-2	14" Pipe to HX E-16B (TE)		SB-14-40-SS	CF-1	C5.51	



U. E. & C. 001215 ISI

[illegible]

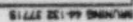
(ATTACHMENT C)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CBS-1216	29					
*CBS-1216 14"	2	1	1	-	Butt	2
*CBS-1216 8"	27	23	2	-	Butt	5

Line - CBS-1216

(ATTACHMENT C)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CBS-1216-1-1	14" Pipe to HX E-16B (TE)		SB-14-40-SS	CF-1	C5.51	
* CBS-1216-1-2	14" Pipe to Reducer Ell		SB-14-40-SS	CF-1	C5.51	
* CBS-1216-2-1	8" Pipe to Reducer Ell		SB-8-40-SS	CF-1	C5.51	
* CBS-1216-2-8	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
* CBS-1216-2-20	8" Pipe to Valve V-17		SB-8-40-SS	CF-1	C5.51	
* CBS-1216-2-21	8" Pipe to Valve V-17 (TE)		SB-8-40-SS	CF-1	C5.51	
* CBS-1216-2-22	8" Pipe to Penetration K15 (TE)		SB-8-40-SS	CF-1	C5.51	



D.E. & C. 801216 ISI

100

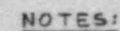
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-324	19					
CS-324 3"	19	18	-	-	Butt	4

Line - CS-324

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
S.W. - "B"	3" Pipe to Reducer		SB-3-160-SS	CF-1	C5.21	
324-F0102	3" Pipe to Valve V-221		SB-3-160-SS	CF-1	C5.21	
324-F0104	3" Pipe to Tee		SB-3-160-SS	CF-1	C5.21	
S.W. - "K"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	



DENOTES: FIELD WELD IDENTIFICATION

DENOTES : SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

+1/• DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U. E. & C. 9763-1-CS-324-01
9763-805012 P & ID

REV	DESCRIPTION	PREP	CHKD	APP'D	DATE
-----	-------------	------	------	-------	------



YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS-WELD MAP
LINE CS-324

DESIGNED BY	DATE	CHECKED BY	DATE	ENG APPROVAL	DATE	COORD REVIEW	DATE
P. CARTER	7-24-86	T. RENNELL	8-22-86	RA JEFFREY B. BISH	8-22-86	D. J. J.	8-22-86
ORIGINAL WORK DATE	AUTOCALC NO.		PLANT	ENG. DES.	CATEGORY	ENG. NO.	REV.
			1-65-324-5E				

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-325	12					
CS0325 2"	12	12	-	-	Socket	2

Line - CS-325

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
325-F0205	2" Pipe to Valve V-127		N/A	CF-1	C5.30	
325-F0211	2" Pipe to Tee		N/A	CF-1	C5.30	

NOTES:

XX	XX
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

DENOTES: FIELD WELD IDENTIFICATION



REMARKS: SHOP WELD IDENTIFICATION

DENOTES: HANGER / SUPPORT

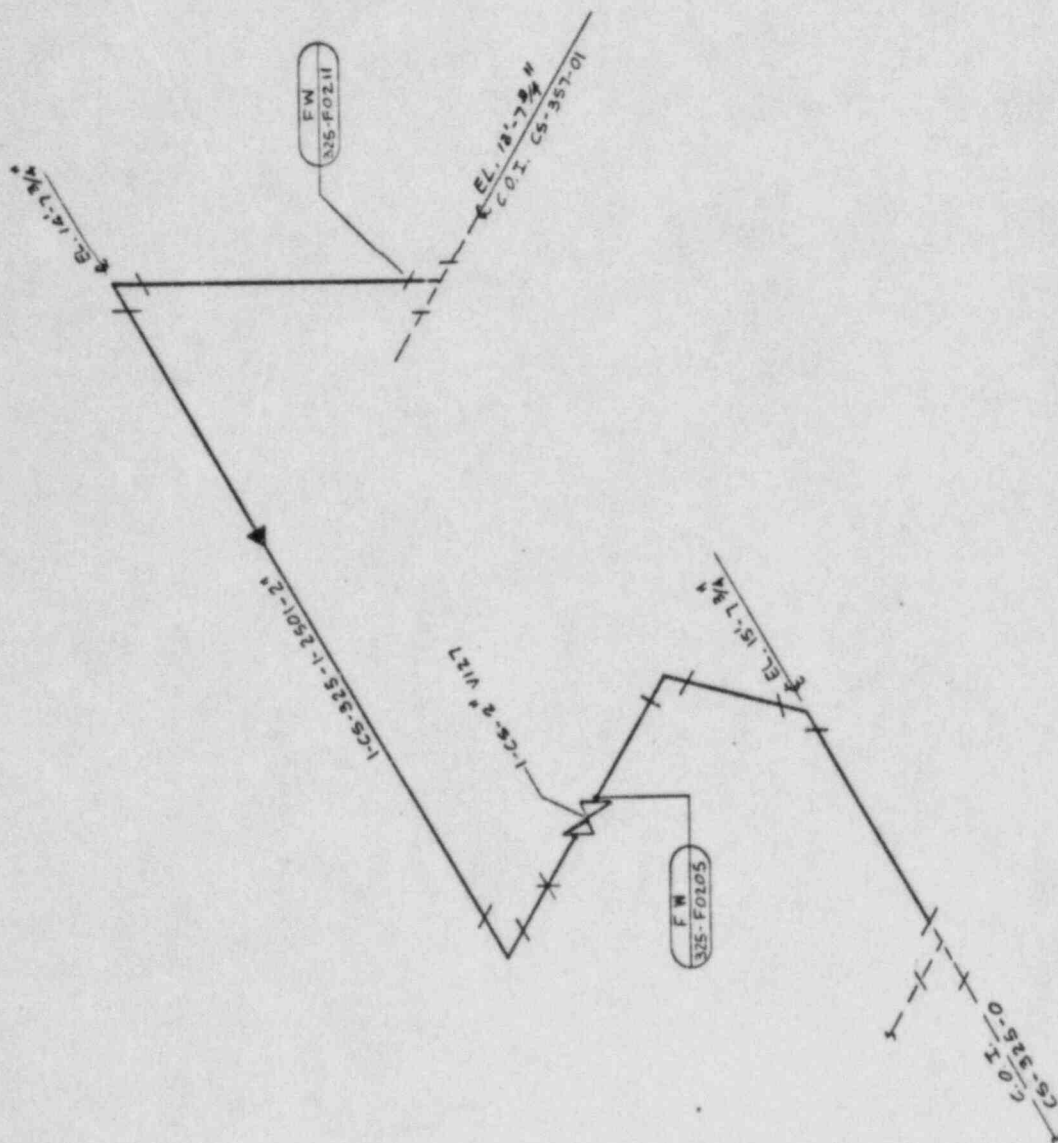
DENOTES: CONTINUED ON ISOMETRIC

DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U.F. & C. 9763-1-C5-325-02

9763-005011 P&ID

[illegible]

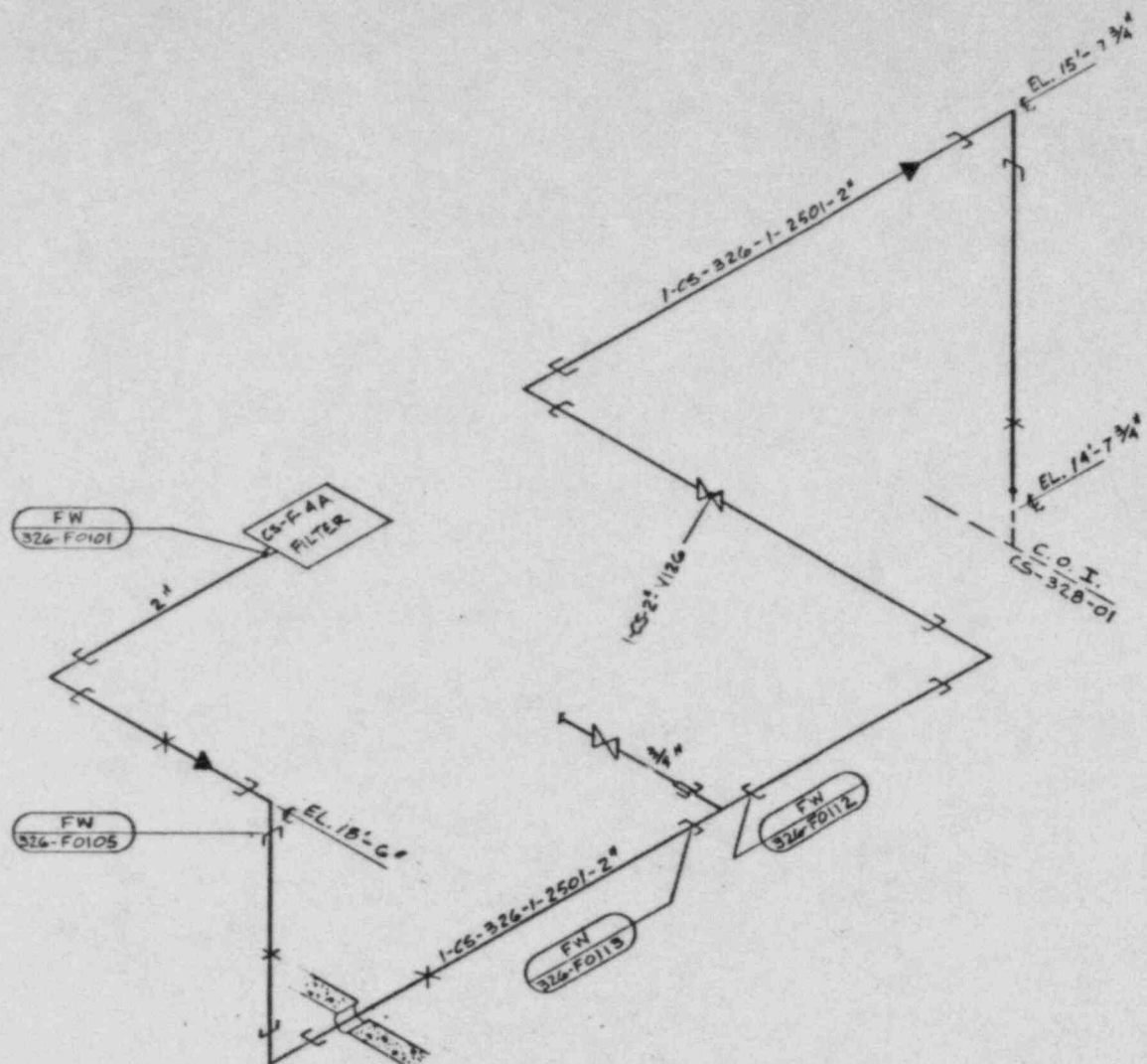
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-326	20					
CS-326 2"	20	19	1	-	Socket	4

Line - CS-326

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
326-F0105	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
326-F0101	2" Pipe to Filter CS-F-4A (T.E.)		N/A	CF-1	C5.30	
326-F0113	2" Pipe to Tee		N/A	CF-1	C5.30	
326-F0112	2" Pipe to Tee		N/A	CF-1	C5.30	



NOTES:

(FW)
XX DENOTES: FIELD WELD IDENTIFICATION

(ALPHA)
DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT

C.O.I DENOTES: CONTINUED ON ISOMETRIC

7/• DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U. E. & C. 9763-1-CS-326-01
9763-1-CS-326-
9763-805011 P & I. D.

REV.	DESCRIPTION	PREP.	CHD.	APPD.	COORD. REVIEW



YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD. WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS-WELD MAP
LINE CS-326

DESIGNED BY	DATE	CHECKED BY	DATE	ENG. APPROVAL	DATE	COORD. REVIEW	DATE
P. CARTER	7-24-86	T. REYNOLDS	8-22-86	RA. JERRY	8-21-86	D. J. JONES	8-21-86
CHIEF/PL. WELD DATE		ATTENDANT NO.		PL. NO.		CA. NO.	

1-CS-326-SE

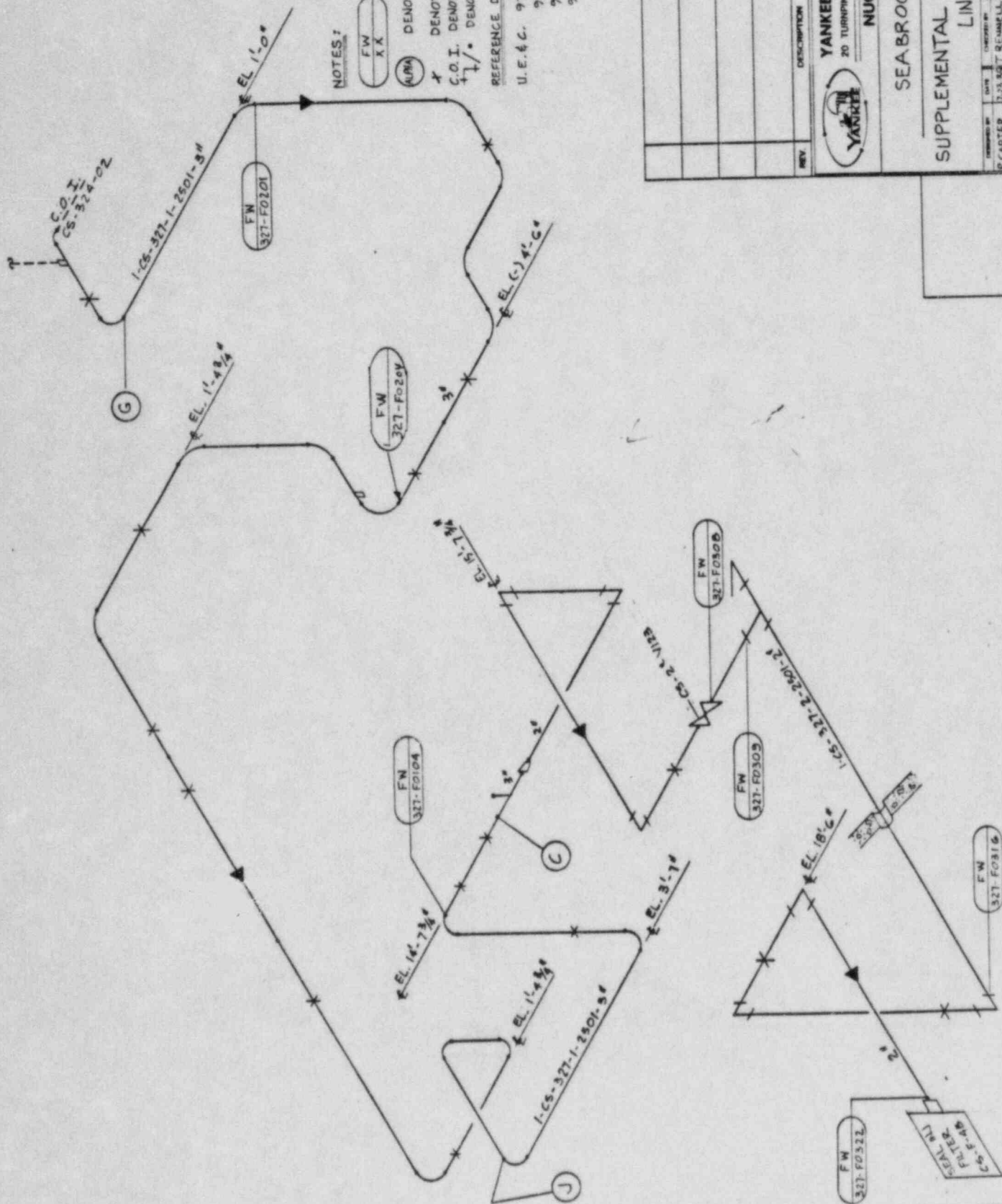
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-327	61					
CS-327 3"	42	35		-	Butt	6
CS-327 2"	19	19	1	-	Socket	4

Line - CS-327

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
327-F0322	2" Pipe to Filter CS-F-4B (T.E.)		N/A	CF-1	C5.30	
327-F0316	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
327-F0309	2" Pipe to Tee		N/A	CF-1	C5.30	
327-F0308	2" Pipe to Valve V-123		N/A	CF-1	C5.30	
S.W. - "C"	3" Pipe to Tee		SB-3-160-SS	CF-1	C5.21	
S.W. - "J"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
S.W. - "G"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
327-F0204	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
327-F0201	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
327-F0104	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	



NOTES:

FW	KK
----	----

ADNOTES: FIELD WELD IDENTIFICATION



DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT

C.O.I. DENOTES: CONTINUED ON ISON

+/• DENOTES SOCKET / BUTT WELD

REFERENCE DWGS.:

U.E. 4C. 9763-1-65-327-01

9763-1-65-527-02

9763-1-C5-327-03

9763-803011 P410

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD, WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP

LINE-65-327

ORGANIZATION	NAME OF INDIV.	DATE	RECEIVED BY	DATE	FILE APPROVAL	DATE	BOARD REVIEW
P CARTER		7-23-80	R CAMPBELL	8-12-80	RAHMER	8-12-80	D T ...
						1-C5-327-S E	

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-328	74					
CS-328 2"	42	41	1	-	Socket	6
CS-328 3"	32	28	-	-	Butt	5

Line - CS-328

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
328-F0914	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
328-F0907	2" Pipe to CS-2" V122		N/A	CF-1	C5.30	
328-F0305	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
328-F0407	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
328-F0501	2" Pipe to CS-2" V165		N/A	CF-1	C5.30	
328-F0919	2" Pipe to Seal Injection Filter CS-F-4B (TE)		N/A	CF-1	C5.30	
328-F0203	3" Pipe to 90° Ell			CF-1	C5.21	
328-F0204	3" Pipe to 90° Ell			CF-1	C5.21	
328-F0102	3" Pipe to 90° Ell			CF-1	C5.21	
328-F0103	3" Pipe to 90° Ell			CF-1	C5.21	
328-F0104	3" Pipe to			CF-1	C5.21	

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-329	13					
CS-329 2"	13	13	-	-	Socket	2

SYSTEM Chemical-Volume Control

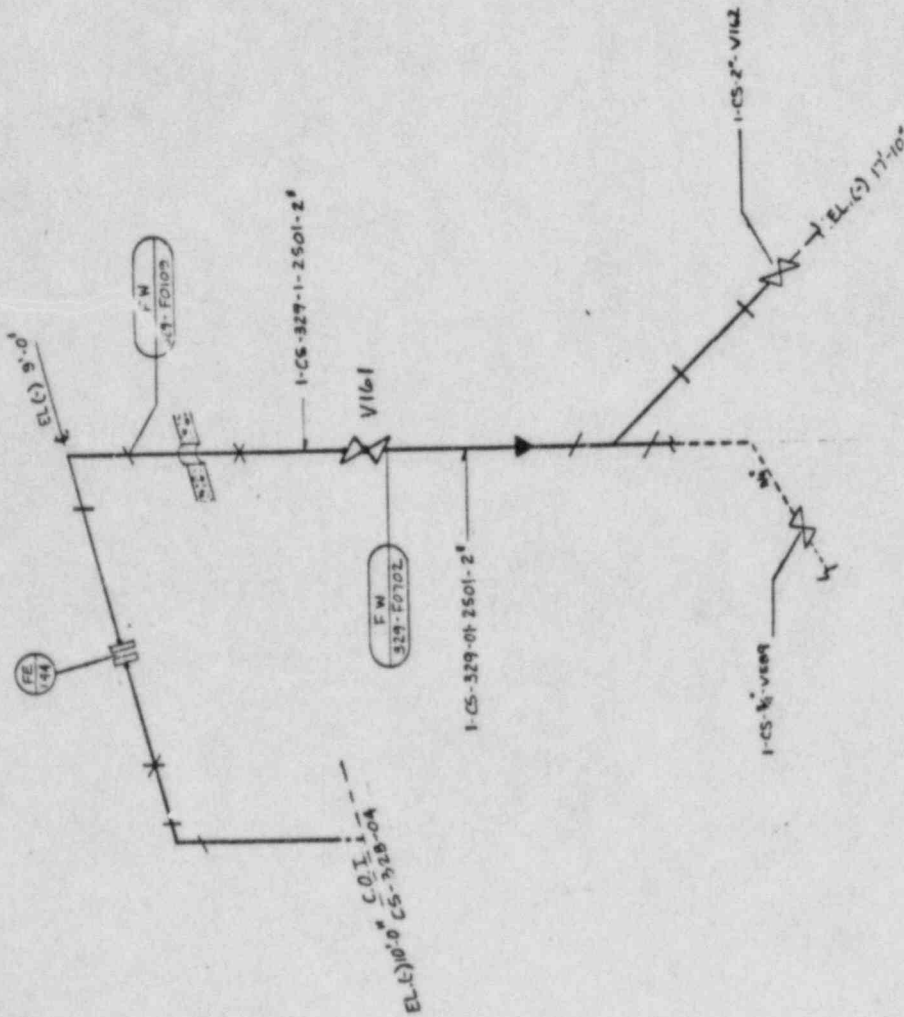
SEPP

REV: 0 PAGE 17 of 72

Line - CS-329

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
329-F0109	2" Pipe to 90° Ell		N/A	C-F	C5.30	
329-F0702	2" Pipe to V-161		N/A	C-F	C5.30	



NOTES:

FW	Y	X
----	---	---

DENOTES: FIELD WELD IDENTIFICATION

Ⓐ DENOTES: SHOP WELD IDENTIFICATION

↑ DENOTES: HANGER / SUPPORT
↑ DENOTES: CONTAINER OR ISOMER.

+7/. DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS:

U. E. 6 C. 9763-1-65-329-01

9763-11-25-27-01
9763-80501 P6 ID

1997

[illegible][illegible][illegible][illegible][illegible][illegible]

PROJ	CHCD	APPD

YALVEE ATOMIC ELECTRIC COMPANY

TANKEE ATOMIC
20 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

一、二

SEABROOK STATION UNIT 1

EXPERIMENTAL EXAMINATIONS-WELD M

LINE 16-379

[illegible]

ARTER	7-29-86	TRENNELL	R 22 05 A Jerning	4-23-85	D. T. Jones
				C.A. TRENNELL	

1-65-329-5E

100

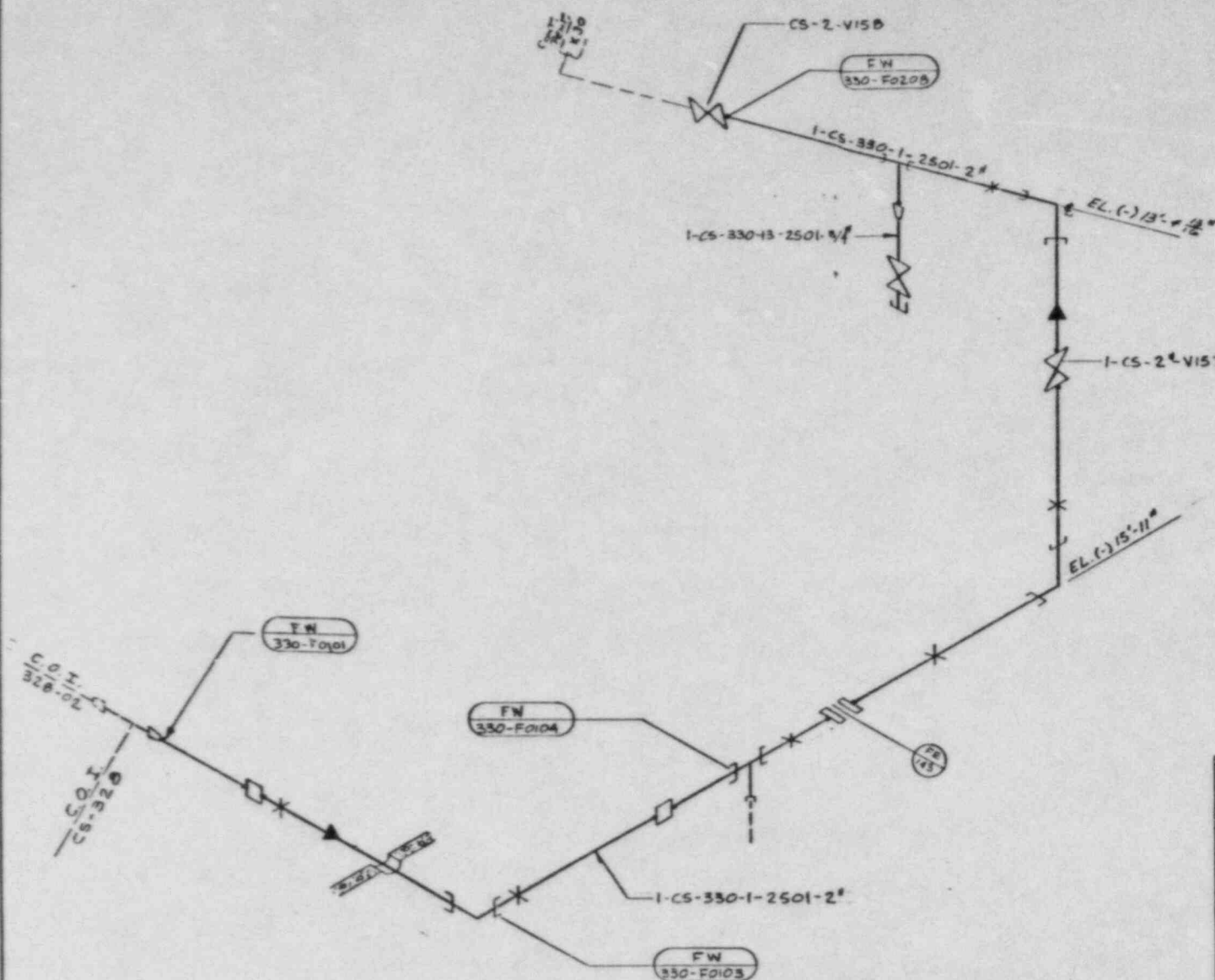
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-330	22					
CS-330 2"	22	22	-	-	Socket	4


Line - CS-330

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
330-F0103	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
330-F0104	2" Pipe to Tee		N/A	CF-1	C5.30	
330-F0208	2" Pipe to CS-2" V158		N/A	CF-1	C5.30	
330-F0101	2" Pipe to Reducer		N/A	CF-1	C5.30	



NOTES:

 DENOTES: FIELD WELD IDENTIFICATION

(ALPHA) DENOTES: SHOP WELD IDENTIFICATION

X DENOTES: HANGER / SUPPORT

C.O. I. DENOTES: CONTINUED ON ISOMETRIC

+1/. DENOTES: SOCKET/BUTT WELD

REFERENCE DWGS.:

U. E. & C. 9763-1-CS-330-01

7763-1-CG-330-02

9763-805011 P & ID

REV.	DESCRIPTION	PREP.	CHECKED	APPROV.	DATE REVIEWED
	YANKEE ATOMIC ELECTRIC COMPANY				
	20 TURNPIKE ROAD				WESTBORO, MASSACHUSETTS
	NUCLEAR SERVICES DIVISION				
	 SEABROOK STATION UNIT I 				
	SUPPLEMENTAL EXAMINATIONS-WELD MA LINE CS-330				

DESIGNED BY	DATE	CHECKED BY	DATE	ENG APPROVAL	DATE	CORD REVIEW	DATE
P CARTER	7-29-86	T PENNELL	8-27-86	J JIMMY	8-28-86	D J L...	9-1-86
ORIGINAL TITLE DATE		REVISION NO.		PLANT	UNIT BEG	CATEGORY	CORD NO

1-CS-330-G-E

(ATTACHMENT D)

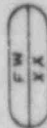
<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-331	16					
CS-331 2"	16	16	-	-	Socket	3

Line - CS-331

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
331-F0107	2" Pipe to 90° El		N/A	CF-1	C5.30	
331-F0211	2" Pipe to FE-146		N/A	CF-1	C5.30	
331-F0209	2" Pipe to 90° El		N/A	CF-1	C5.30	

NOTES:



DENOTES: FIELD WELD IDENTIFICATION



DENOTES: SHOP WELD IDENTIFICATION

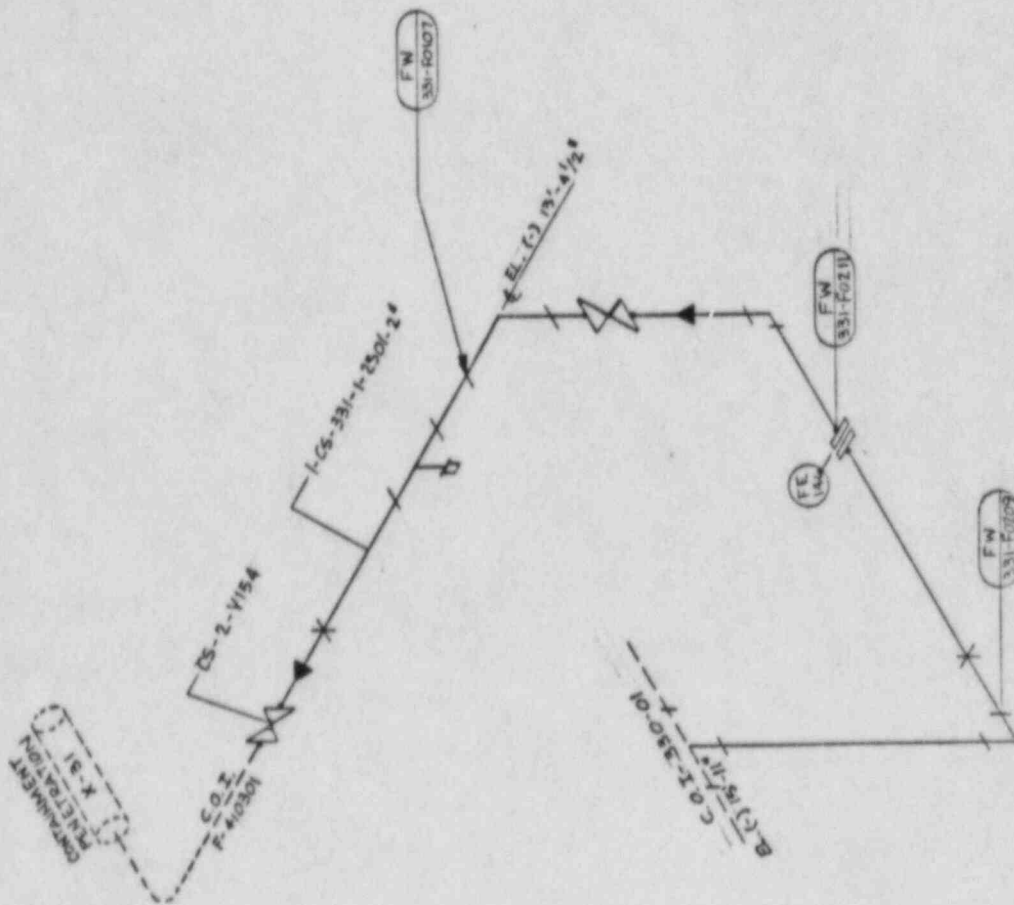
DENOTES: HANGER / SUPPORT


L.O.I. DENOTES: CONTINUED ON ISOMETRIC

DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.:

U. E. & C. 9763-1-C5-331-01
9763-805011 P410



REF	DESCRIPTION	PREP	CHRGD	APPD	GOOD DATE
	 YANKEE ATOMIC ELECTRIC COMPANY 20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS NUCLEAR SERVICES DIVISION				
	SEABROOK STATION UNIT 1 SUPPLEMENTAL EXAMINATIONS-WELD MAP LINE CS-331				

ENGINEERED BY	DATE	TIME APPROVAL	DATE	GOOD RECORD	DATE
P. CARTER	7-6-80	T. REARICK	8-1-80	7-31-80	8-1-80
FOR ANAL. ANALYST	7-6-80	FOR ANAL. ANALYST	8-1-80	FOR ANAL. ANALYST	8-1-80

1-65-331-5E

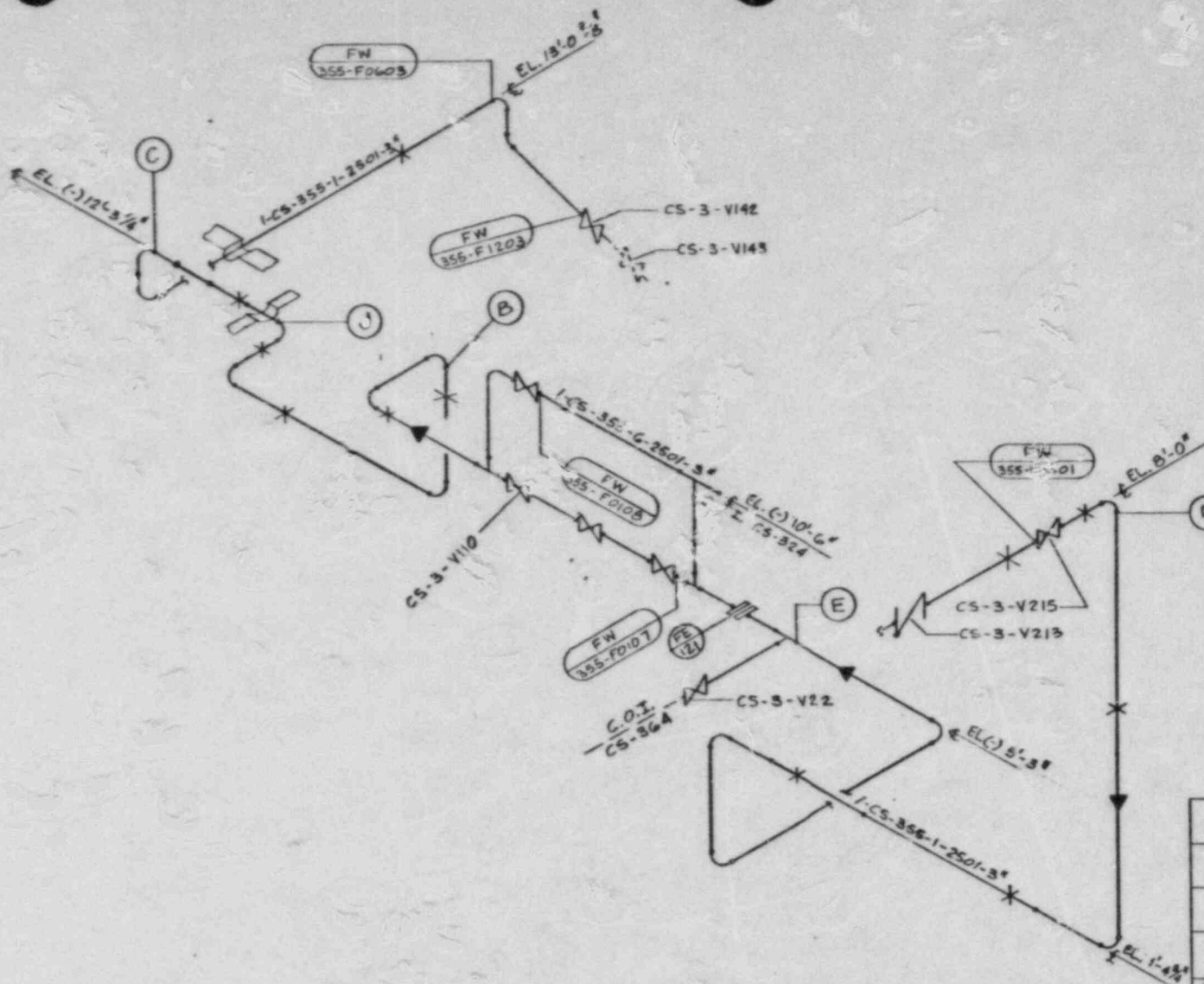
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-355	63					
CS-355 3"	63	56	-	-	Butt	10

Line - CS-355

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
355-F0401	3" Pipe to Valve V-215		SB-3-160-SS	CF-1	C5.21	
S.W. - "D"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
S.W. - "E"	3" Pipe to Tee		SB-3-160-SS	CF-1	C5.21	
355-F0108	3" Pipe to Valve V-141		SB-3-160-SS	CF-1	C5.21	
355-F0107	3" Pipe to Valve V-D11 X		SB-3-160-SS	CF-1	C5.21	
S.W. - "B"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
S.W. - "J"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
S.W. - "C"	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
355-F0603	3" Pipe to 90° Ell		SB-3-160-SS	CF-1	C5.21	
355-F1203	3" Pipe to Valve V-142		SB-3-160-SS	CF-1	C5.21	



NOTES:

- FW
X X
- ALPHA DENOTES: SHOP WELD IDENTIFICATION
- X DENOTES: HANGER / SUPPORT
- C.O.I. DENOTES: CONTINUED ON ISOMETRIC
- +/- DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

- U.E. & C. 9763-1-CS-355-01
9763-1-CS-355-02
9763-1-CS-355-03
9763-1-CS-355-04
9763-1-CS-355-05
9763-1-CS-355-06
9763-1-CS-355-07
9763-B05012 P & ID

R.V.	DESCRIPTION	PREP	CHNGD	UPPD	REV
<p>YANKEE ATOMIC ELECTRIC COMPANY 20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS</p> <p>NUCLEAR SERVICES DIVISION</p> <p>SEABROOK STATION UNIT 1</p> <p>SUPPLEMENTAL EXAMINATIONS - WELD MAP</p> <p>LINE CS-355</p>					
DESIGNED BY	DATE	CHECKED BY	DATE	ENG. APPROVAL	DATE
P. CARTER	7-2-86	T. RENNELL	8-22-86	P. J. RAY	7-29-85
DRAGAL WELD DATA	WITNESS BY	PLANT	TIME AND	CERTIFY	DATE
					1-CS-355-SE

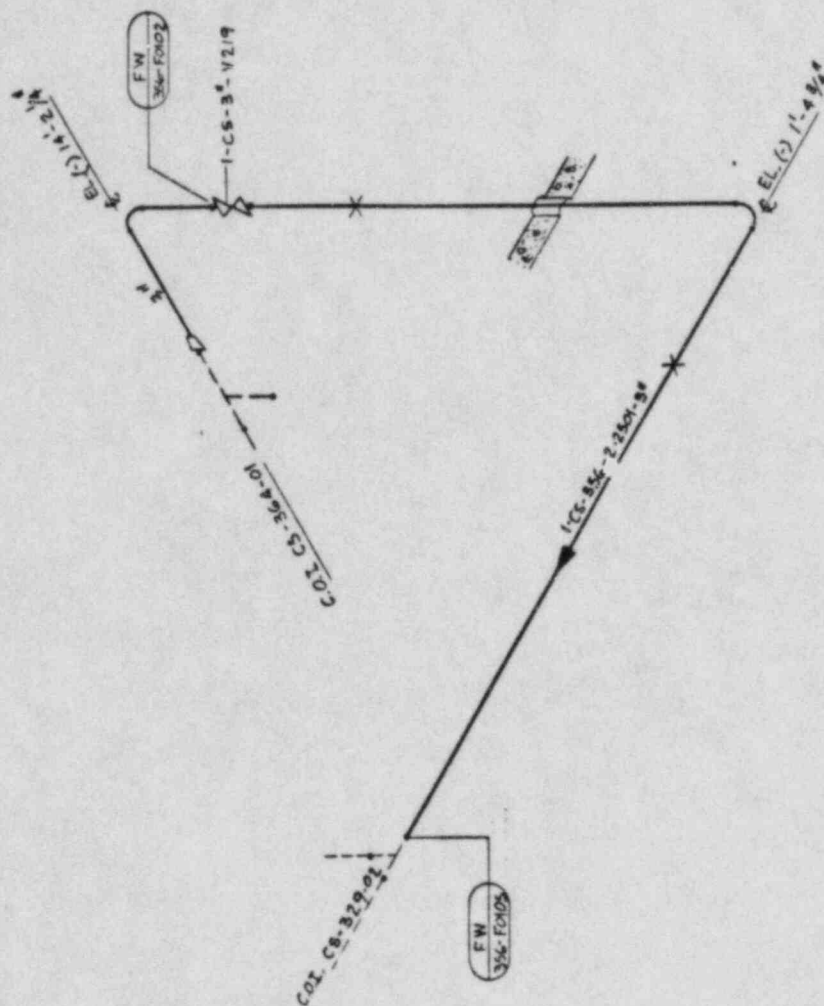
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-356	8					
CS-356 3"	8	8	-	-	Butt	2

Line - CS-356

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
356-F0105	3" Pipe to Tee		SB-3-160-S3	CF-1	C5.21	
356-F0102	3" Pipe to Valve V-219		SB-3-160-SS	CF-1	C5.21	



NOTES:

FW	KK
----	----

REMARKS: FIELD WELD IDENTIFICATION

APNA DENOTES: SHOP WELD IDENTIFICATION

DENOTES: HANGER / SUPPORT

C.O.I DENOTES: CONTINUED ON ISOMETRIC

+7/• DEVOTES: SOCKET/BUTT WELD

REFERENCE DWGS:

U. E. 4 C. 9763-1-55-356-01

9763-805012

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP

LINE CS-356

TEMPERATURE BY	DATE	TESTED BY	DATE	SIZE	CONTAINER	DATE	COLORED BY
CASTER	7-28-82	T. DEANWILL	8-22-82	10.0	10.0	10.0	10.0
ORIGINAL, UNDER DATE		RETEST BY AND		PLANT		1-55-356-5E	

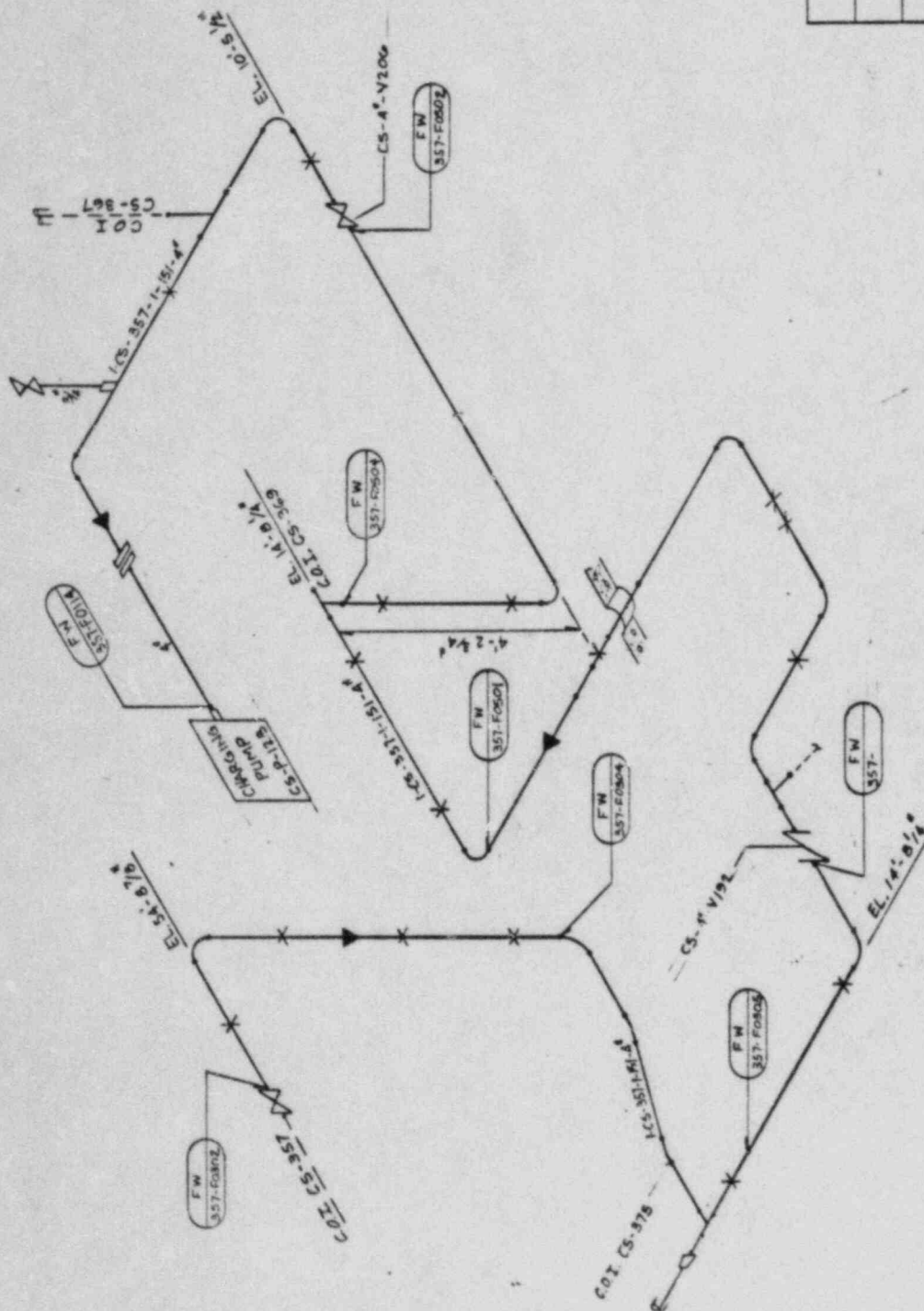
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-357	51					
CS-357 4"	51	41	1	-	Butt	

Line - CS-357

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
357-F0114	4" Pipe to Pump CS-P-128 (T.E.)		SB-4-80-SS	CF-1	C5.21	
S.W. - "E"	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	
357-F0502	4" Pipe to Valve V-206		SB-4-80-SS	CF-1	C5.21	
357-F0501	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "B"	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
S.W. - "J"	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	
357-F0304	4" Pipe to 90° Ell		SB-4-80-SS	CF-1	C5.21	
357-F0302	4" Pipe to Valve WV-D1704		SB-4-80-SS	CF-1	C5.21	
357-F0504	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	
S.W. - "G"	4" Pipe to Tee		SB-4-80-SS	CF-1	C5.21	



NOTES:

Y	Y
M	F

Denotes: FIELD WELD IDENTIFICATION

REMARKS: SHOP WELD IDENTIFICATION

DENOTES: HANGER / SUPPORT

DENOTES: CONTINUED ON ISOMETRIC

DENOTES: SOCKET / BUTT WELD

REFERENCE DWG. 5.

U. E. & C. 9763-1-C5-377-01

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS-WELD MAP

LINE CS-357

ORGANIZED BY	DATE	CHARITY BY	DATE	REG. APPROVAL	DATE	COINED NUMBER	DATE
F CARTER	7-22-36	DR. H. L. Lutz	7/24/36	RA Jones	7/24/36	10/10/36	8/1/36
CONVINCED, AMOUNT DATE		IN DATE		CARTER		DATE NO.	
						1-5-357-5E	

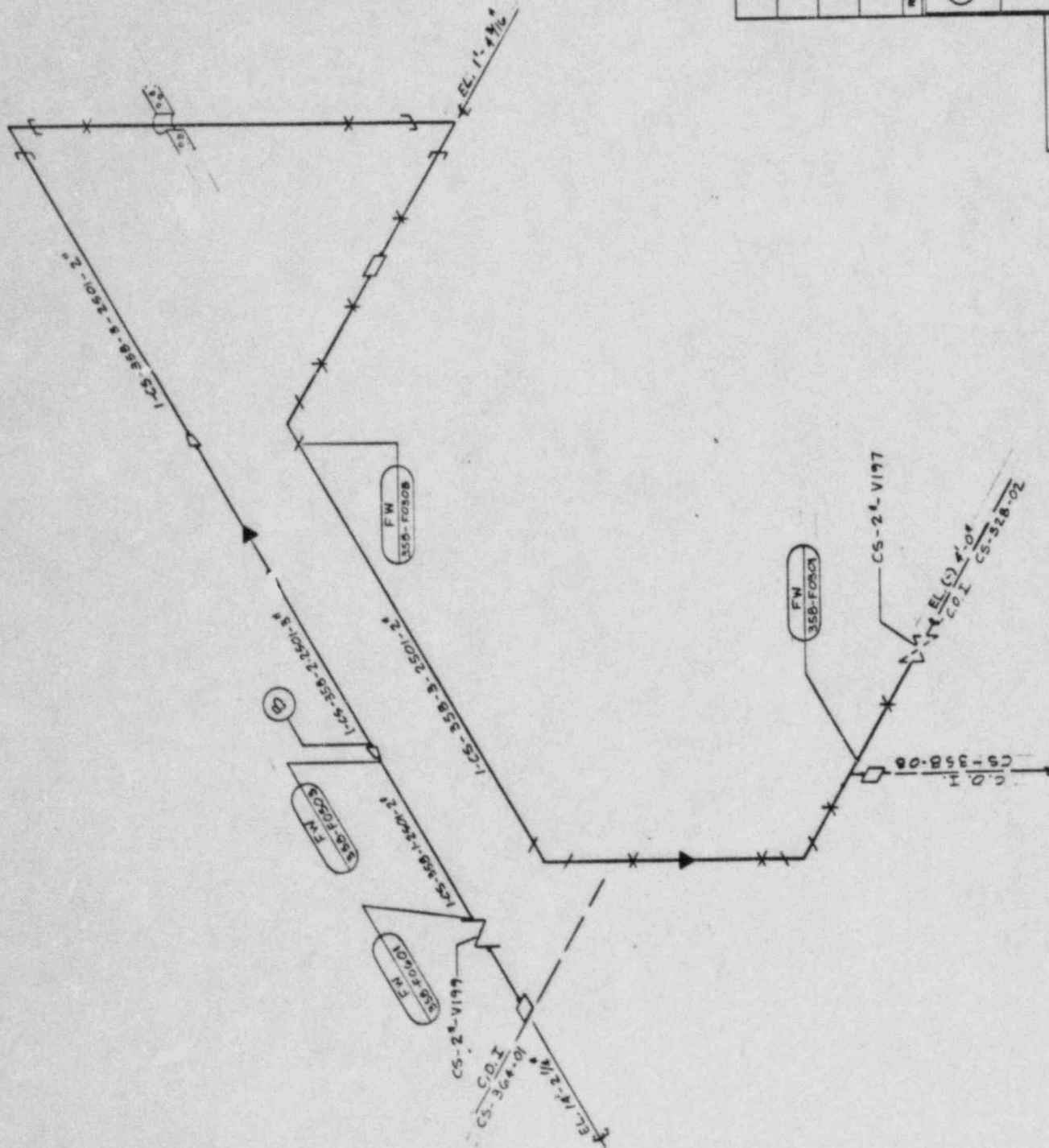
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-358	25					
CS-358 3"	4	4	-	-	Butt	1
CS-358 2"	21	21	-	-	Socket	4

Line - CS-358

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
358-F0601	2" Pipe to Valve V-199		N/A	CF-1	C5.30	
358-F0503	2" Pipe to Reducer		N/A	CF-1	C5.30	
358-F0308	2" Pipe to 90° Ell		N/A	CF-1	C5.30	
358-F0301	2" Pipe to Tee		N/A	CF-1	C5.30	
S.W. - "B"	3" Pipe to Reducer		SB-3-160-SS	CF-1	C5.21	



NOTES:

XX
MA-1

DENOTES: FIELD WELD IDENTIFICATION

DENOTES: SHOP WELD IDENTIFICATION

DENOTES: HANGER / SUPPORT

C.O.I DENOTES: CONTINUED ON ISOMETRIC

DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.:

U. E. & C.

9163-1-65-358-03

9763-1-65-35B-04

9763-1-65-350-05

9763-1-25-350-06

9763-805012 P4ID

[illegible]

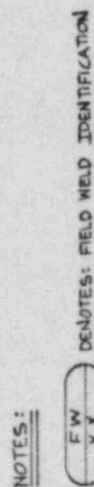
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-362	24					
CS-362 4"	24	22	1	-	Butt	4

Line - CS-362

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
S.W. - "A"	4" Pipe to Pump CS-P-2A (T.E.)		SB-4-160-SS	CF-1	C5.21	
362-F0102	4" Pipe to Valve V-209		SB-4-160-SS	CF-1	C5.21	
S.W. - "F"	4" Pipe to 90° Ell		SB-4-160-SS	CF-1	C5.21	
362-F0204	4" Pipe to 90° Ell		SB-4-160-SS	CF-1	C5.21	



(ALPHA) DENOTES: SHOP WELD IDENTIFICATION
 X DENOTES: HANGER / SUPPORT
 C.O.I DENOTES: CONTINUED ON ISOMETRIC
 47/. DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.:

U.E. & C. 9763-1-CS-362-01
9763-1-CS-362-02
9763-805012 P&ID

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TIERHILL ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP
LINE CS-362

PREPARED BY	DATE	CHARACTER BY	DATE	SERIAL APPROVAL	DATE	CHECKED BY	DATE
P CARTER	7-22-68	TREMPER	9-21-68	KA JAMES	9-21-68	D J TAYLOR	9-21-68
ORIGINAL FILED IN DATE		FILED		CITY AND STATE		FBI NO.	
				105-362-5E			

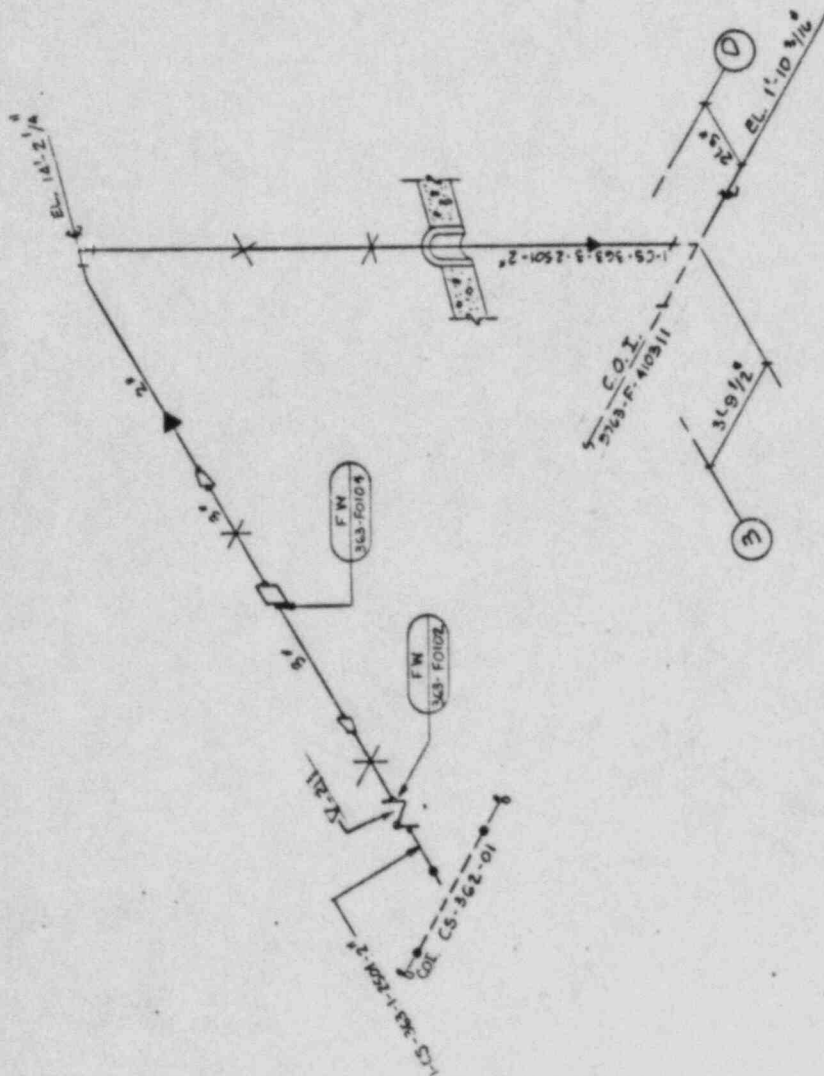
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-363	12					
CS-363 3"	4	4	-	-	Butt	1
CS-363 2"	8	8	-	-	Socket	1

Line - CS-363

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
363-F0104	3" Pipe to Flow Orifice 7482		SB-3-160-SS	CF-1	C5.21	
363-F0108	2" Pipe to Valve V-211		N/A	CF-1	C5.30	



NOTES:

FW	YK
----	----

DENOTES: FIELD WELD IDENTIFICATION

APNA DENOTES: SHOP WELD IDENTIFICATION

Y DENOTES: WANGER / SUPPORT

DENOTES: CONTINUED ON ISOMETRIC

+t/. DENOTES: SO: FT / BUTT WELD

REFERENCE DWGS.

U. E. & C. 9763-1-C5-363-0

9763-805012 P&ID

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP
LINE CS-363

[illegible]

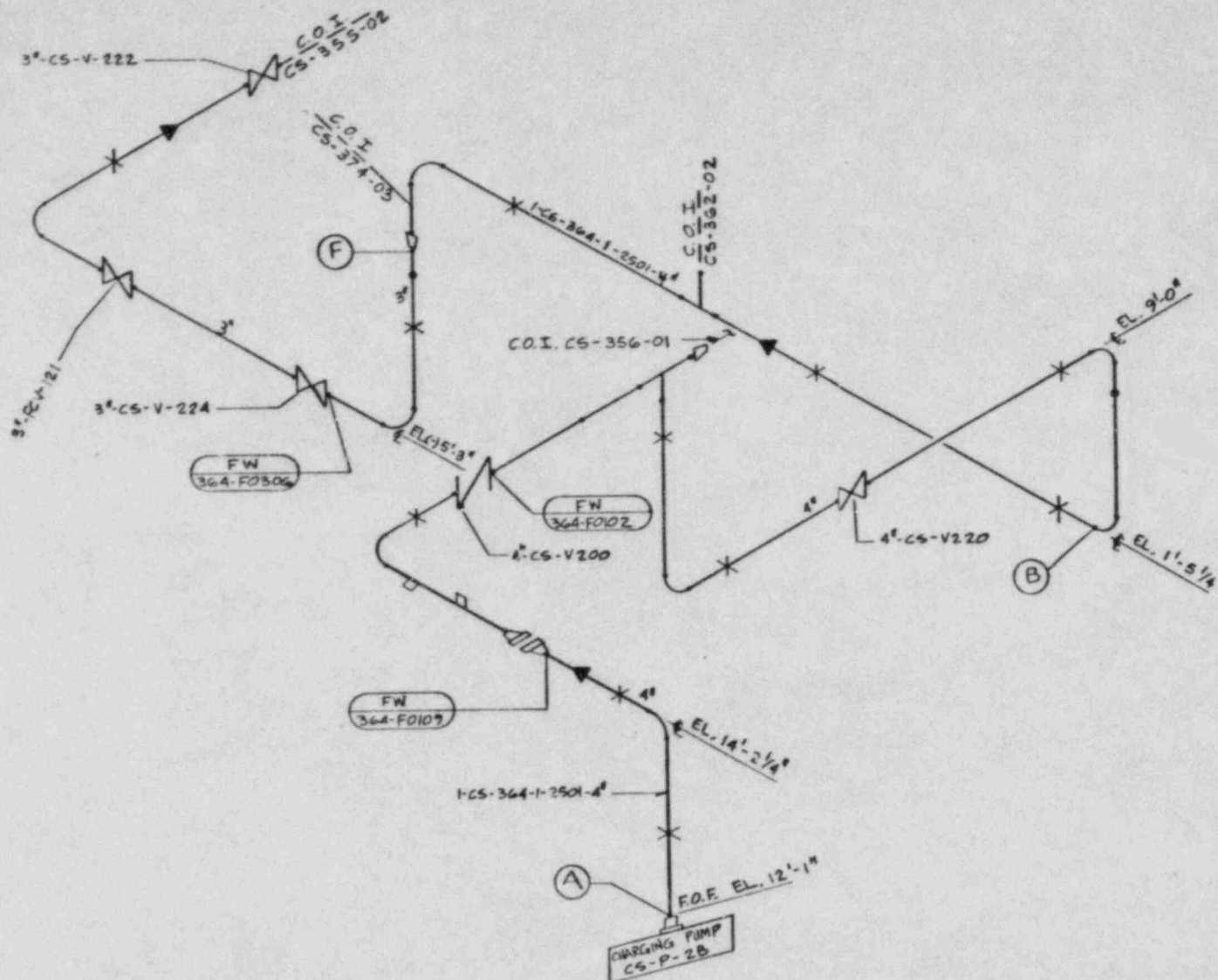
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIFS</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-364	43					
CS-364 4"	28	26	1	-	Butt	4
CS-364 3"	12	11	-	-	Butt	2

Line - CS-364

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
S.W. - "A"	4" Pipe to Pump CS-P-2B (T.E.)		SB-4-160-SS	CF-1	C5.21	
364-F0109	4" Pipe to Flange		SB-4-160-SS	CF-1	C5.21	
364-F0102	4" Pipe to Valve V-200		SB-4-160-SS	CF-1	C5.21	
S.W. - "L"	4" Pipe to 90° Ell		SB-4-160-SS	CF-1	C5.21	
364-F0306	3" Pipe to Valve V-224		SB-3-160-SS	CF-1	C5.21	
S.W. - "F"	3" Pipe to Reducer		SB-3-160-SS	CF-1	C5.21	



NOTES:

(FW / XX) DENOTES: FIELD WELD IDENTIFICATION

(A) DENOTES: SHOP WELD IDENTIFICATION

* DENOTES: HANGER / SUPPORT

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

+ / • DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U.E. & C. 9763-1-CS-364-01
9763-1-CS-364-02
9763-1-CS-364-03
9763-805012 P&ID

REV.	DESCRIPTION	PREP.	CHKD.	APPD.	DATE

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS
NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1
SUPPLEMENTAL EXAMINATIONS- WELD MAP
LINE CS-364

DESIGNED BY	DATE	CHECKED BY	DATE	ENG. APPROVAL	DATE	COORD. REVIEW	DATE
P. CARTER	7-24-67	T. PENNELL	8-22-67	R. J. JEFFERY	9-18-67	D. J. JEFFERY	10-1-67
ORIGINAL ISSUE DATE		REVISION NO.					

1-CS-364-SE

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-367	6					
CS-367 2"	6	6	-	-	Socket	1

SYSTEM Chemical-Volume Control

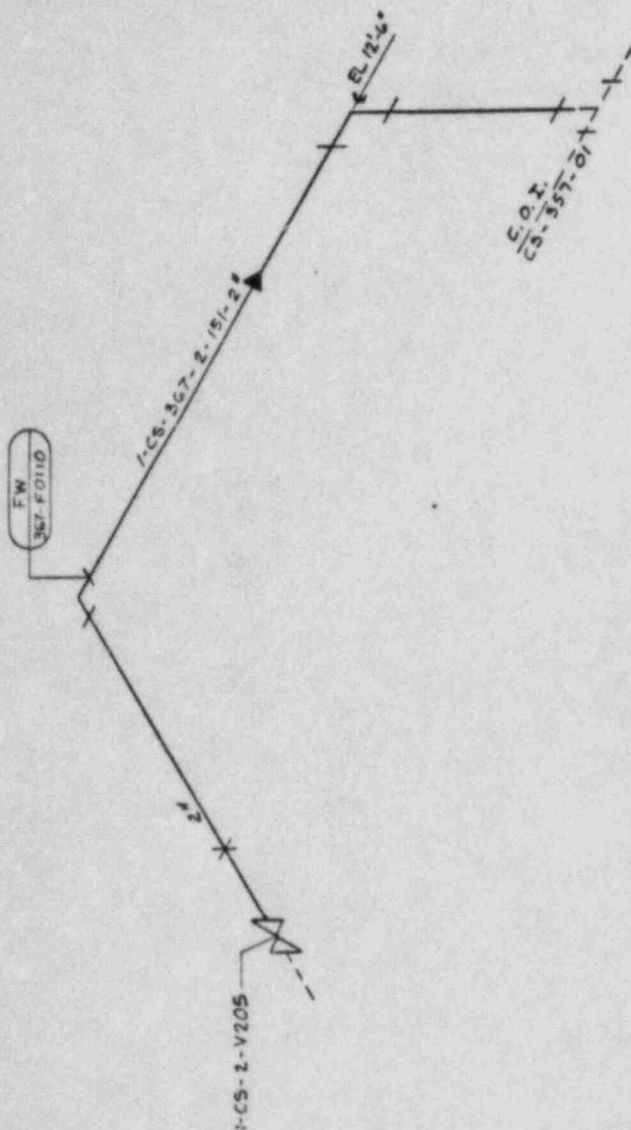
SEPP

REV: 0 PAGE 47 of 72

Line - CS-367

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
367-F0110	2" Pipe to 90° Ell		N/A	CF-1	C5.30	



NOTES:

3	x
4	x

DENOTES: FIELD WELD IDENTIFICATION

ALPHA

DENOTES: SHOP WELD IDENTIFICATION

+

DENOTES: HANGER / SUPPORT

405

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

十

+ / DENOTES; SUBJECT / DATA FIELD

REFERENCE DWGS.

U. E. & C. 9763-1-CS-367-01

9763-005012 P4 ID

[illegible]

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CS-369	65					
*CS-369 6"	20	20	-	-	Butt	3
*CS-369 8"	57	57	-	-	Butt	7

Line - CS-369

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
CS-369-2-7	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-2-9	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-2-16	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-2-21	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-2-23	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-2-28	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-2-32	8" Pipe to 90° Ell		SB-8-40-SS	CF-1	C5.51	
CS-369-3-2	6" 90° Ell to Pipe		SB-6-40-SS	CF-1	C5.51	
CS-369-3-7	6" Tee to Pipe		SB-6-40-SS	CF-1	C5.51	
CS-369-3-7	6" Tee to Pipe		SB-6-40-SS	CF-1	C5.51	

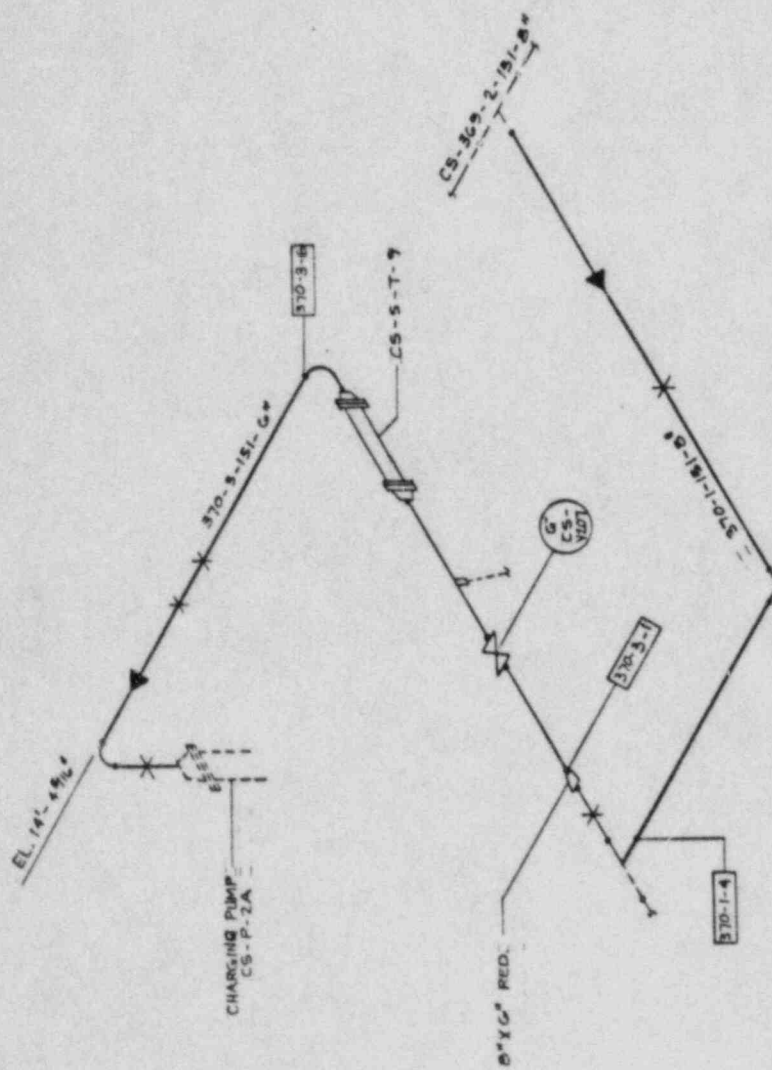
Line - CS-370

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CS-370-3-1	6" Pipe to Reducer		SB-6-40-SS	CF-1	C5.51	
* CS-370-3-6	6" Pipe to 90° Ell		SB-6-40-SS	CF-1	C5.51	
* CS-370-1-4	8" Tee to Pipe		SB-8-40-SS	CF-1	C5.51	

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CS-370	15					
*CS-370 6"	9	9	1	-	Butt	2
*CS-370 8"	6	6	-	-	Butt	1



NOTES:

FOR COMPLETE IDENTIFICATION WELD & HANGERS
HAVE THE PREFIX CS-370

- — BUTT WELD (SHOP OR FIELD)
- † — HANGER
- — EXEMPT LINE

REFERENCE DWG.
UE & C 800370 ISI

[illegible]

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
*CS-371	15					
*CS-371 6"	9	9	-	-	Butt	1
*CS-371 8"	6	6	-	-	Butt	2

Line - CS-371

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
* CS-371-1-1	8" Tee to Pipe		SB-8-40-SS	CF-1	C5.51	
* CS-371-1-5	8" Tee to Pipe		SB-8-40-SS	CF-1	C5.51	
* CS-371-3-8	6" 90° Ell to Pipe		SB-6-40-SS	CF-1	C5.51	

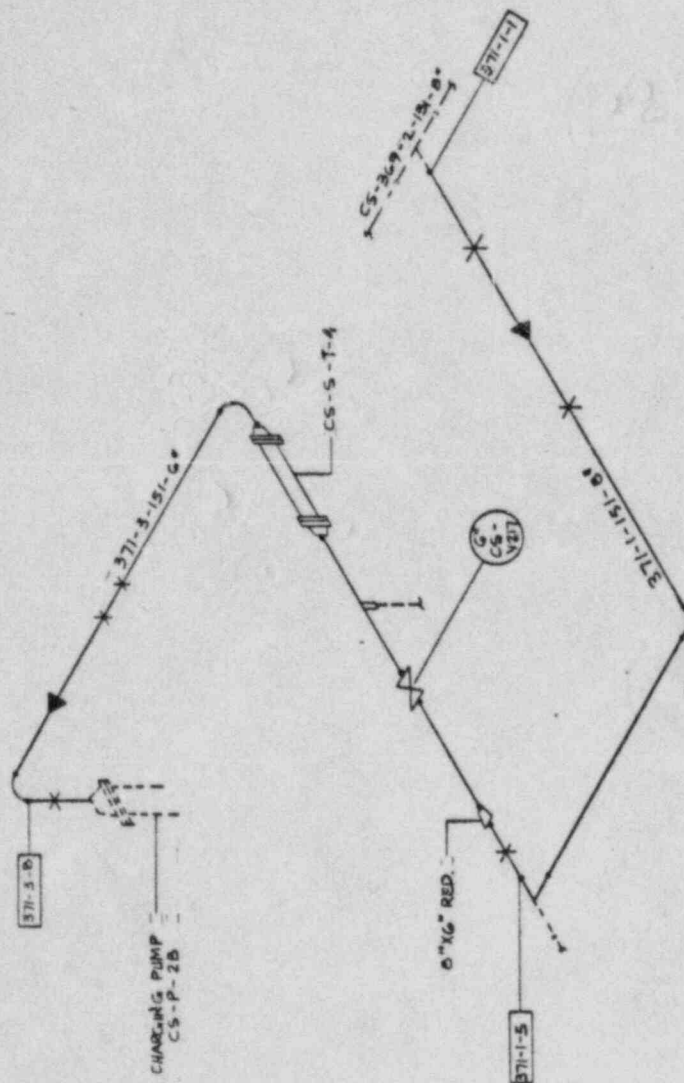
NOTES:

FOR COMPLETE IDENTIFICATION WELD JOINTS
HAVE THE PREFIX CS-371-

- — BUTT WELD (SHOP OR FIELD)
- + — HANGER
- — EXEMPT LINE

REFERENCE DWG.

U.E. & C. 200371 ISI

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
200 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION	UNIT 1
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

SUPPLEMENTAL EXAMINATIONS - WELD MAP
LINE CS-371

ENDORSED BY	DATE	ENDORSED BY	DATE	DATE APPROVAL	DATE	CLASS METHOD	DATE
P CARTER	10-22-86	T RUSSELL	10-22-86	11/11/86		SEM	10/26/86
(ORIGINAL, DOUBLE DATE)		P. CART		1986 YEAR		CATEGORY	
		NECESSARY NO.				1-5-371-5F	

SYSTEM Chemical-Volume Control

SEPP

REV: 0 PAGE 59 of 72

Line - CS-374

(ATTACHMENT D)

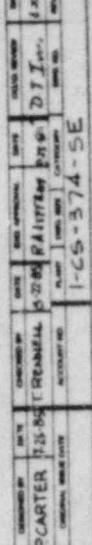
COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
374-F0301	4" Pipe to Flange - FE-917		SB-4-160-SS	C-F	C5.21	
374-F0203	4" Pipe to Flange - FE-917		SB-4-160-SS	C-F	C5.21	
374-F0216	4" Pipe to Ell		SB-4-160-SS	C-F	C5.21	

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-374	18					
CS-374 4"	18	13	-	-	Butt	3

†L/ • DENOTES: SOCKET / BUTT WELD

U. E. & C. 9763-1-C5-374-01
9763-1-C5-374-02
9763-805012 P&ID



(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-375	27					
CS-375 3"	27	25	1	-	Butt	5

Line - CS-375

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
375-F0117	3" Pipe to Heat Exchanger CS-E-5B (T.E.)		SB-3-40-SS	CF-1	C5.21	
375-F0104	3" Pipe to Valve V-193		SB-3-40-SS	CF-1	C5.21	
S.W. - "K"	3" Pipe to Tee		SB-3-40-SS	CF-1	C5.21	
375-F0120	3" Pipe to 90° Ell		SB-3-40-SS	CF-1	C5.21	
S.W. - "H"	3" Pipe to 90° Ell		SB-3-40-SS	CF-1	C5.21	
375-F0111	3" Pipe to 90° Ell		SB-3-40-SS	CF-1	C5.21	

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-377	13					
CS-377 3"	13	9		2	Butt	4

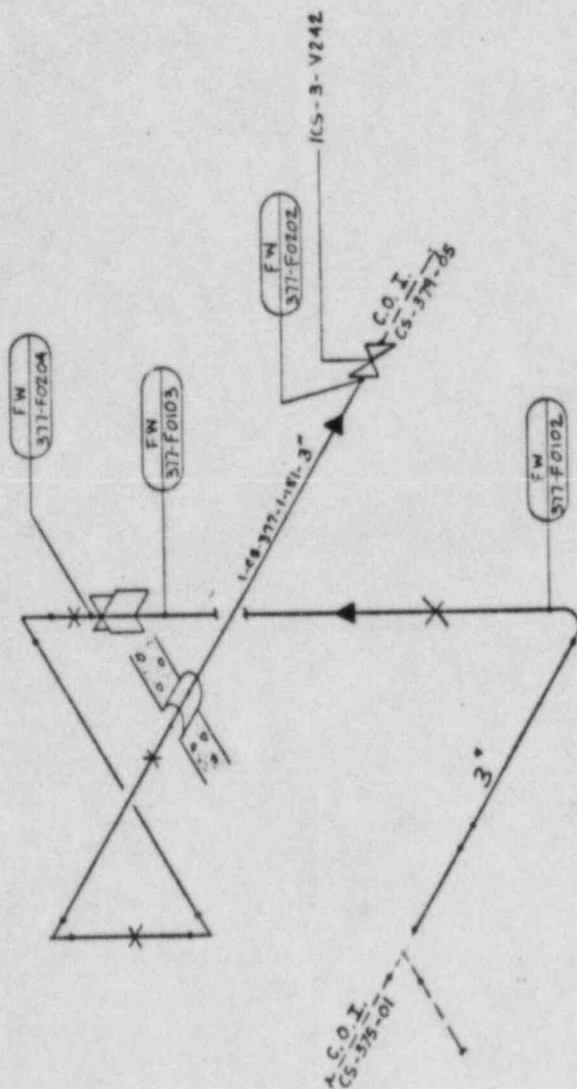
SYSTEM Chemical Volume Control

SEPP

REV: 0 PAGE 65 of 72Line - CS-377

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
377-F0202	3" Pipe to Valve V242		SB-3-40-SS	CF-1	C5.21	
377-F0204	3" Pipe to Lug		SB-3-40-SS	CF-1	C5.21	
377-F0103	3" Pipe to Lug		SB-3-40-SS	CF-1	C5.21	
377-F0102	3" Pipe to 90° Ell		SB-3-40-SS	Cf-1	C5.21	



NOTES:

FW	KK
----	----

DENOTES FIELD WELD IDENTIFICATION

ALPHA DENOT

DENOTES SHOP WELD IDENTIFICATION

DEFINITION

DENOTES HANGER / SUPPORT

C.O.I. DEMO

C.G.I. DONOTES CONTINUED ON ISOMETRIC

•/t

+/• DONOTES SOCKET / BUTT WELD

REFERENCE DWGS:

U. E. 4 C.

U. E. & C. 9763-1-C5-377-01

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
20 TURNPIKE ROAD WESTBORO, MASSACHUSETTS

YANKEE

CFAP

MISSISSIPPI FEMALE

1000

(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-453	8					
CS-453 4"	8	8	-	-	Butt	2

Line - CS-453

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
453-F0103	4" Pipe to 90 ⁰ Ell		SB-4-40-SS	CF-1	C5.21	
S.W. - "B"	4" Pipe to 90 ⁰ Ell		SB-4-40-SS	CF-1	C5.21	

FW	KK
----	----

DENOTES: SHIP WELD IDENTIFICATION

DENOTES: HANGER / SUPPORT

DENOTES: CONTINUED ON ISOMETRIC

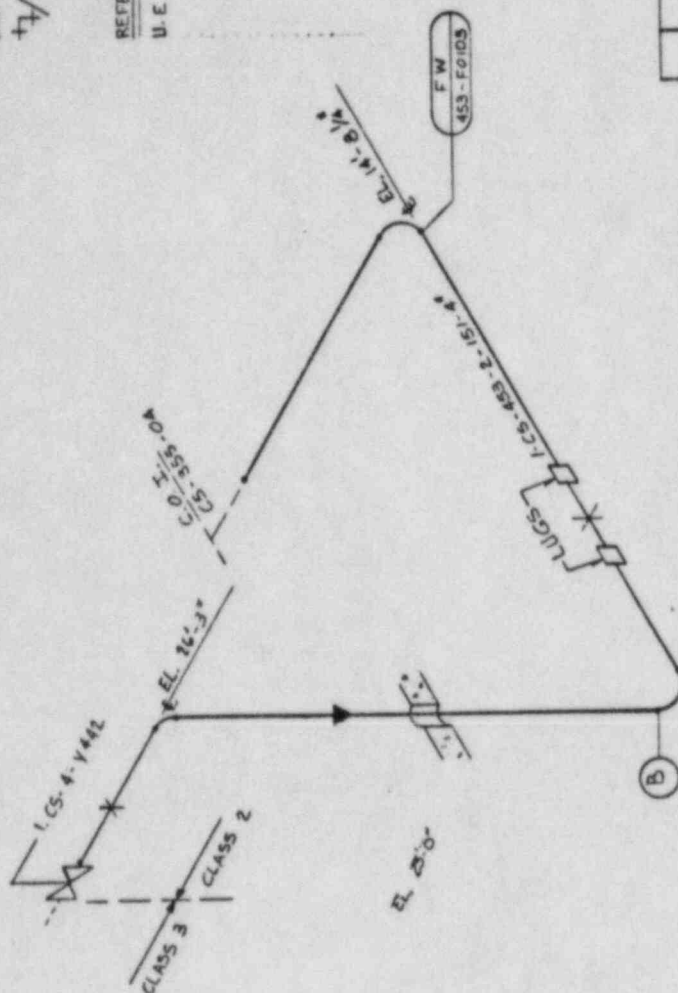
DENOTES: SOCKET / BUTT WELD

 \cdot/t_+

U.E. 6C 9763-1-76-453-01

9763-1-C6-453-02

9763-805012 P4 ID

[illegible]

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS-WELD MAP

LINE CG-453

DISSEMINATED BY	DATE	CLASSIFIED BY	DATE	REAS. AUTHORITY	DATE	GROUP NUMBER
P. CASTER	7-21-60	R. DENNELL	8-12-60	105-453-5E		105-453-5E
CLASS. AUTH. 105-453-5E		EX. AUTH. 105-453-5E		EX. AUTH. 105-453-5E		

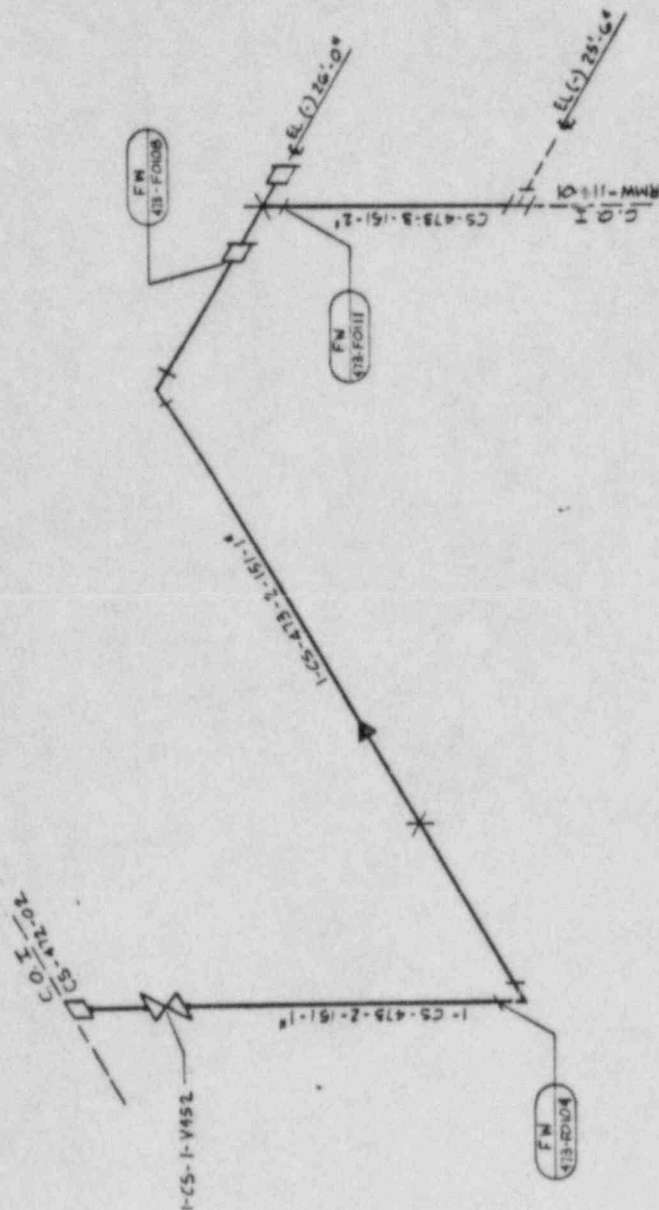
(ATTACHMENT D)

<u>SYSTEM</u>	<u>TOTAL WELDS</u>	<u>STRUCTURAL DISCONTINUITIES</u>	<u>TERMINAL ENDS</u>	<u>SUPPORTS</u>	<u>WELD TYPE</u>	<u>WELDS SELECTED</u>
CS-473	14					
CS-473 2"	6	6	-	-	Socket	1
CS-473 1"	8	8	-	-	Socket	2

Line - CS-473

(ATTACHMENT D)

COMPONENT IDENTIFICATION	COMPONENT DESCRIPTION	PROCEDURE NUMBER	CALIBRATION BLOCK (If Applicable)	CODE CATEGORY	CODE EXAM METHOD	REMARKS
473-F0104	1" Pipe to 90° Ell		N/A	CF-1	C5.30	
473-F0108	1" Pipe to Reducer		N/A	CF-1	C5.30	
473-F0111	2" Pipe to Tee		N/A	CF-1	C5.30	



NOTES:

2	2
---	---

DENOTES: FIELD WELD IDENTIFICATION

ALFA DEN

DENOTES: SHOP WELD IDENTIFICATION

7. 3. 0

DENOTES: HANGER / SUPPORT

C. O. I. DEN

C.O.I. DENOTES: CONTINUED ON ISOMETRIC

• /t.
DEN

4. DENOTES: SOCKET / BUTT WELD

REFERENCE DWGS.

U. E. 6 C. 9763-1-C5-473-01

9763-805012 P4 ID

[illegible]

YANKEE ATOMIC ELECTRIC COMPANY
150 TURNPIKE ROAD
WESTBORO, MASSACHUSETTS

NUCLEAR SERVICES DIVISION

SEABROOK STATION UNIT 1

SUPPLEMENTAL EXAMINATIONS - WELD MAP

LINE 65-473

FORWARDED BY	DATE	CHECKED BY	DATE	DATE RECEIVED	DATE	CLASS NUMBER	BY
PARTER	7-8-56	T. WHELAN	10-20-56	AKR	11-1-56	D3 I	AK
ORIGINAL FILED IN			FILED	CLASS	CLASS	CLASS	CLASS
			1-5-473-5E				