



DWG.	DESCRIPTION	DWG.	DESCRIPTION	DWG.	DESCRIPTION
1	GENERAL PLAN	27	24" MANHOLES - SHOP & FIELD DETAILS	140 THRU 143	4'-0" x 6'-6" PERSONNEL LOCK DETAILS
2	DRYWELL - SHELL STRETCHOUT	28	DRYWELL PENETRATION DETAILS	200 THRU 203	2'-6" ESCAPE LOCK DETAILS
2A	FITTING SCHEDULE & ORIENTATION	29	DRYWELL PENETRATION DETAILS	221	2'-6" ESCAPE LOCK - MOUNTING PADS
2B	FITTING SCHEDULE & ORIENTATION	30	DRYWELL PENETRATION DETAILS	301	FIELD ASSEMBLY OF SUP. CHAMBER SHELL
2C	FITTING SCHEDULE & ORIENTATION	31	DRYWELL PENETRATION DETAILS	302	SUP. CHAMBER - SHELL PLATE DETAILS
2D	FITTING SCHEDULE & ORIENTATION	32	DRYWELL PENETRATION DETAILS	303	SUP. CHAMBER - SHELL PLATE DETAILS
3	FIELD ASSEMBLY OF DRYWELL SHELL	33	DRYWELL PENETRATION DETAILS	304	SUP. CHAMBER - COL & SWAY ROD ASSEMBLY
4	FIELD JOINT DETAILS - DRYWELL SHELL	34	DRYWELL CONTROL ROD PENETRATIONS	305	SUP. CHAMBER - COL STUB ASSEMBLY
5	DRYWELL SHELL PLATES - SHOP DETAILS	35	DRYWELL PENETRATION DETAILS	306	SUP. CHAMBER - COL STUB DETAILS
6	DRYWELL SHELL PLATES - SHOP DETAILS	36	DRYWELL PENETRATION DETAILS	307	SUP. CHAMBER - COL & COL BASE DETAILS
7	DRYWELL SHELL PLATES - SHOP DETAILS	37	DRYWELL PENETRATION DETAILS	308	SUP. CH. - SUPPORT GIRDER & VENT HEADER SUPPORT
8	DRYWELL CYL SHELL & TOP HD. PLATES	38	DRYWELL PENETRATION DETAILS	309	SUP. CHAMBER - SUPPORT GIRDER DETAILS
9	DRYWELL SHELL PLATE ASSEMBLIES - SHOP	39	DRYWELL PENETRATION DETAILS	310	SUP. CH. - HEADER SUPPORT ROD & SWAY ROD DET.
10	DRYWELL SHELL PLATE ASSEMBLIES - SHOP	40	DRYWELL PENETRATION DETAILS	311	SUP. CHAMBER - BAFFLE ASSEMBLY & DETAILS
11	DRYWELL ERECTION SKIRT DETAILS	41	REFERENCE DETAILS	312	SUP. CHAMBER - BAFFLES - SHOP DETAILS
12	DRYWELL 33" FLANGE ASSEMBLY	42	DRYWELL BEAM SEATS - LOWER	313	FIELD ASSEMBLY - HEADER & VENT SYSTEM
13	DRYWELL TOP FLANGE - FIELD DETAILS	43	DRYWELL BEAM SEATS - UPPER	314	VENT LINE DETAILS
14	DRYWELL TOP FLANGE - SHOP DETAILS	44	DRYWELL STABILIZER DETAILS	315	VENT HEADER & DOWNCOMER DETAILS
15	DRYWELL WATER SEAL DETAILS	45	DRYWELL STABILIZER DETAILS	316	VENT TO HEADER JUNCTION
16	DRYWELL VENT INSERT ASSEMBLY	46	DRYWELL JET DEFLECTORS	317	SUP. CHAMBER - PLATFORM ASSY. & DETAILS
17	10" EQUIPMENT DOOR ASSEMBLY	48	INSERT ASSEMBLY FOR PERSONNEL LOCK	318	SUP. CHAMBER - PLATFORM & LADDER DETAILS
18	10" EQUIPMENT DOOR - SHOP DETAILS			319	SUP. CHAMBER - PENETRATION DETAILS
19	DRYWELL - WELDING PAD DETAILS			320	SUP. CHAMBER - VACUUM BREAKER PENETRATIONS
20	DRYWELL PENETRATION DETAILS	100	4'-0" x 6'-6" PERSONNEL LOCK - GEN. ARRANGEMENT	321	SUP. CHAMBER - 36" ACCESS MANHOLES
21	DRYWELL PENETRATION DETAILS	101	4'-0" x 6'-6" PERSONNEL LOCK - STRUCT. ASSM.	322	SUP. CHAMBER - PENETRATION DETAILS
22	DRYWELL PENETRATION DETAILS	102	4'-0" x 6'-6" PERSONNEL LOCK - STRUCT. DETAILS		
23	DRYWELL PENETRATION DETAILS				
24	DRYWELL PENETRATION DETAILS				
25	DRYWELL PENETRATION DETAILS				
26	DRYWELL PENETRATION DETAILS				

FT ANCHOR BOLT PLAN

GENERAL NOTES
 SERVICE - DRYWELL - BULB SHAPED CONTAINMENT VESSEL WILL HOUSE THE PRIMARY NUCLEAR REACTOR VESSEL THE COOLANT RECIRCULATING LINES AND PUMPS, THE CONTROL ROD DRIVES AND OTHER SYSTEMS. THE VENT SYSTEMS CONDUCTS STEAM WHICH WOULD BE RELEASED IN AN OPERATING ACCIDENT TO THE SUPPRESSION POOL AND FORMS AN INTEGRAL PART OF THE DRYWELL CONTAINMENT.
 SUPPRESSION CHAMBER - TORUS SHAPED VESSEL ENCOMPASSING THE DRYWELL TO PROVIDE STORAGE FOR A WATER POOL TO CONDENSE STEAM WHICH MAY BE RELEASED WITHIN THE DRYWELL IN THE EVENT OF AN OPERATING ACCIDENT.

TESTING - DRYWELL & VENT SYSTEM
 1. SOAP BUBBLE TEST AT 5 PSIG. REPEAT AT DESIGN PRESSURE AFTER OVERLOAD TEST.
 2. OVERLOAD PRESSURE TEST AT 71.3 PSIG (INTERNAL) TO BE HELD FOR 30 MINUTES.
 3. LEAK RATE TEST TO BE CONDUCTED AT 62 PSIG AT COMPLETION OF OVERLOAD PRESSURE TEST.
SUPPRESSION CHAMBER
 1. SOAP BUBBLE TEST AT 5 PSIG. REPEAT AT DESIGN PRESSURE AFTER OVERLOAD TEST.
 2. OVERLOAD PRESSURE TEST AT 40.25 PSIG (INTERNAL) W/VESSEL FILLED WITH WATER TO POST INCIDENT LEVEL TO BE HELD FOR 30 MINUTES.
 3. LEAK RATE TEST TO BE CONDUCTED AT 35 PSIG AT COMPLETION OF OVERLOAD PRESSURE TEST AND AFTER VESSEL HAS BEEN DRAINED OF WATER.

DESIGN PRESSURE - DRYWELL & VENT SYSTEM - (62 PSIG INTERNAL @ 310° F.)
 (2 PSIG EXTERNAL @ 32° F. TO 150° F.)
SUPPRESSION CHAMBER - (35 PSIG INTERNAL @ 75° F. TO 205° F.)
 (1 PSIG EXTERNAL @ 32° F. MIN.)
MATERIAL - PLATES - A212" FBX. TO A300 & A201" FBX. TO A300 - MIN. LONG. CHERRY VEE NOTCH. IMPACT TEST VALUES OF 20FT-LBS & 15FT-LBS RESPECTIVELY AT 0° F. (PER ASME SECT. III)
PIPE - A233 GR. "O" SEAMLESS
FORGINGS - A350 LF1 & A182 F304
BOLTS - A320-L7 & A194 GR. 4
MISCELLANEOUS STRUCTURAL - A36 & A53 GR. B
SPECIFICATIONS - 1. ASME CODE SECTION III - NUCLEAR VESSELS, SUBSECTION B.
 2. NIAGARA MOHAWK TECHNICAL SPECIFICATION.
CB&I CO. SERIAL NO'S. - DRYWELL G-1292, SUPPRESSION CHAMBER G-1293
MAGNAFLUX - YES (ALL NON X-RAYABLE CARBON STEEL JOINTS & FILLET ATTACHMENT WELDS)
INSPECTION - MILL - CTR
 SHOP - YES H.S.B. & CUSTOMER
 FIELD - YES H.S.B. & CUSTOMER

SECTION - BY CB&I COMPANY
FOUNDATION & ANCHOR BOLTS - BY OTHERS
CODE STAMP - YES
RADIOGRAPH - YES (100%)
SHELL JOINT EFFICIENCY - 100%
CORROSION ALLOWANCE - 1/16"
PICKLE & PAINT - YES (SEE PAINT SHEETS)
EARTHQUAKE DESIGN - YES
WELD ELECTRODE - WELD ELECTRODE USED IN FABRICATION SHALL BE OF THE SAME BRAND NAME AS THOSE USED TO QUALIFY PROCEDURE.

SI APERTURE CARD

9110230012

CHICAGO BRIDGE & IRON COMPANY
 GREENVILLE, PA.
GENERAL PLAN
 PRESSURE SUPPRESSION CONTAINMENT VESSELS
 FOR NIAGARA MOHAWK POWER CORP.
 AT NINE MILE POINT NUCLEAR STATION
 NEW YORK

OSWEGO
 PURCHASER'S NO. N-127
 CONTRACT NO. 9-1370
 DRAWN BY J.D.S. DATE 2-24-65
 CHECKED BY DATE
 DESIGN ENGR. ROTHROCK 029 NO. 1 REV 2

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