



MARK NUMBER	VALVE DESCRIPTION	SIZE	BL. OF VALVES
AV132, 222	VP1815-C-40	1-1/2"	2
AV18, 219, 226, 221	VS158-FB-20	2"	4
V286	VGF015-DB-AR	4"	1
V421, 422, 423, 424	SUPPLIED BY CONTRACTOR		19
V673, 671, 678, 662	SPEC P482C		
V952A, V953, V954			
V955, V956A, V957			
V958			
V424, 553	VGF015-BC-AR	8"	2
V427, 529, 662	VGF015-BC-AR	8"	3
V428	VGF015-BC-4F	4"	1
V429	VGF015-BC-AR	3"	1
V433, 638, 639	VGF017-E-4	3/4"	5
V425, 700	VGF017-E-4	2"	1
V434, 435	VAT017-A-4	2-1/2"	2
V474, 475, 476, 477	VGF017-E-4	1-1/2"	4
V538	VGF015-DB-4	2"	1
V531, 532	VGF030-A-4	1"	2
V533	VGF030-A-4	1-1/2"	1
V545, 547, 599, 600	VSS060-D-2	3/4"	4
V636, 645, 667	VGF030-A-4	3/4"	5
V753, 744	VGF015-DB-AR	2-1/2"	1
V529	VGF015-DB-AR	2-1/2"	1
V631, 632, 633, 634, V635, 638, 641, 642, 643, 644	VGF020-C-4	1"	18
V598, 622, 626, 630	VGF030-A-4C	3/4"	4
V824, 825, 826, 827	VGF017-E-4C	1"	4
V823, 829, 831	VGF017-E-4C	3/4"	3
V828, 821	VGF017-E-4C	2"	1
V874, 877, 887, 888	SUPPLIED BY CONTRACTOR		10
V877, 878A, 878B	SPEC P482C		
V1018, 1013	VSS060-C-4	3/4"	2
V1025, 1026, 1027	VGF040-A-4	1"	3

ASSOCIATED EQUIPMENT MARK NUMBERS					
VALVE NUMBER	POSITION SWITCH	VALVE NUMBER	POSITION SWITCH	VALVE NUMBER	POSITION SWITCH
V18	2518	V17	2517	V28	2528
V19	2519	V218	2518	V297	25297
V20	2520	V219	2519	V298	25298
V21	2521	V220	2520	V299	25299
V22	2522	V221	2521	V300	25300
V23	2523	V222	2522	V301	25301
V24	2524	V223	2523	V302	25302
V25	2525	V224	2524	V303	25303
V26	2526	V225	2525	V304	25304
V27	2527	V226	2526	V305	25305
V28	2528	V227	2527	V306	25306
V29	2529	V228	2528	V307	25307
V30	2530	V229	2529	V308	25308
V31	2531	V230	2530	V309	25309
V32	2532	V231	2531	V310	25310
V33	2533	V232	2532	V311	25311
V34	2534	V233	2533	V312	25312
V35	2535	V234	2534	V313	25313
V36	2536	V235	2535	V314	25314
V37	2537	V236	2536	V315	25315
V38	2538	V237	2537	V316	25316
V39	2539	V238	2538	V317	25317
V40	2540	V239	2539	V318	25318
V41	2541	V240	2540	V319	25319
V42	2542	V241	2541	V320	25320
V43	2543	V242	2542	V321	25321
V44	2544	V243	2543	V322	25322
V45	2545	V244	2544	V323	25323
V46	2546	V245	2545	V324	25324
V47	2547	V246	2546	V325	25325
V48	2548	V247	2547	V326	25326
V49	2549	V248	2548	V327	25327
V50	2550	V249	2549	V328	25328
V51	2551	V250	2550	V329	25329
V52	2552	V251	2551	V330	25330
V53	2553	V252	2552	V331	25331
V54	2554	V253	2553	V332	25332
V55	2555	V254	2554	V333	25333
V56	2556	V255	2555	V334	25334
V57	2557	V256	2556	V335	25335
V58	2558	V257	2557	V336	25336
V59	2559	V258	2558	V337	25337
V60	2560	V259	2559	V338	25338
V61	2561	V260	2560	V339	25339
V62	2562	V261	2561	V340	25340
V63	2563	V262	2562	V341	25341
V64	2564	V263	2563	V342	25342
V65	2565	V264	2564	V343	25343
V66	2566	V265	2565	V344	25344
V67	2567	V266	2566	V345	25345
V68	2568	V267	2567	V346	25346
V69	2569	V268	2568	V347	25347
V70	2570	V269	2569	V348	25348
V71	2571	V270	2570	V349	25349
V72	2572	V271	2571	V350	25350
V73	2573	V272	2572	V351	25351
V74	2574	V273	2573	V352	25352
V75	2575	V274	2574	V353	25353
V76	2576	V275	2575	V354	25354
V77	2577	V276	2576	V355	25355
V78	2578	V277	2577	V356	25356
V79	2579	V278	2578	V357	25357
V80	2580	V279	2579	V358	25358
V81	2581	V280	2580	V359	25359
V82	2582	V281	2581	V360	25360
V83	2583	V282	2582	V361	25361
V84	2584	V283	2583	V362	25362
V85	2585	V284	2584	V363	25363
V86	2586	V285	2585	V364	25364
V87	2587	V286	2586	V365	25365
V88	2588	V287	2587	V366	25366
V89	2589	V288	2588	V367	25367
V90	2590	V289	2589	V368	25368
V91	2591	V290	2590	V369	25369
V92	2592	V291	2591	V370	25370
V93	2593	V292	2592	V371	25371
V94	2594	V293	2593	V372	25372
V95	2595	V294	2594	V373	25373
V96	2596	V295	2595	V374	25374
V97	2597	V296	2596	V375	25375
V98	2598	V297	2597	V376	25376
V99	2599	V298	2598	V377	25377
V100	2600	V299	2599	V378	25378

- NOTES:
- ALL INSTRUMENTS AND EQUIPMENT NUMBERS TO BE PREFIxed WITH "FPV" EXCEPT WHERE NOTED. AN APOSTROPHE (') WILL REPLACE THE MARK (+) IN THE PREFIX FOR EQUIPMENT OR INSTRUMENTS WHICH ARE A PART OF NUCLEAR SAFETY FEATURES SYSTEM.
  - WHERE POSSIBLE, ALL VALVES SHALL BE UNDERWRITER'S LABORATORY INC. LISTED.
  - VALVES MARKED (A) SHALL BE PROVIDED WITH POSITION SWITCHES TO SUPERVISE FULL OPEN.
  - ALL PIPING IS CL121A EXCEPT WHERE OTHERWISE NOTED.
  - LOCAL HOSE AND DRUM CONNECTIONS ARE 3/4" EXCEPT WHERE OTHERWISE NOTED.
  - HOSE STATIONS HAVE 2-1/2" x 1-1/2" HOSE REDUCERS AFTER ANGLE VALVE TO ACCOMMODATE THE 1-1/2" HOSE STATION.
  - THIS IS A REMOVABLE SPOOL PIECE WHICH IS REMOVED DURING NORMAL PLANT OPERATION. IT IS INSTALLED WHEN THE PLANT IS DOWN AND FIRE PROTECTION IS NEEDED INSIDE THE PRIMARY CONTAINMENT.
  - TERMINATED WITH 1/2" NPT, MALE THREAD, CL 47 PIPE.
  - INPUT FROM ANY SINGLE HEAT DETECTOR FROM ASSOCIATED ZONE.
  - COMMON FIRE ASSOCIATOR AT P49 FOR EACH LOCAL PANEL.
  - COMMON FIRE SIREN FOR EACH LOCAL PANEL.
  - COMMON SUPERVISORY TROUBLE STATUS LIGHT FOR EACH LOCAL PANEL.
  - COMMON SUPERVISORY HORN FOR EACH LOCAL PANEL.
  - COMMON SUPERVISORY TROUBLE COMPUTER INPUT FOR EACH LOCAL PANEL.
  - INPUT FROM ANY SINGLE SMOKE DETECTOR IN ASSOCIATED ZONE.
  - COMMON SUPERVISORY TROUBLE ASSOCIATOR AT P49 FOR EACH LOCAL PANEL.
  - COMMON FIRE ALARM STATUS LIGHT.
  - COMPUTER GENERATED ALARM.
  - COMMON FIRE COMPUTER INPUT FOR ALL SUPERVISED MANUAL VALVES ASSOCIATED WITH THE LOCAL PANEL.
  - ISOLATION VALVES INSTALLED SO FLOW ARROW ON VALVE BODY POINTS OUT OF CONTAINMENT INTO REACTOR BUILDING.
  - HOV200, 204, 206, 208, 210 ARE ACTUATING VALVES FOR THEIR ASSOCIATED DELUGE VALVES.
  - ABANDONED IN PLACE WITH ELECTRICAL WIRES DISCONNECTED.
  - VALVE V508 SHOULD BE THROTTLED TO ALLOW ONLY DRIP FLOW TO KEEP A LOOP SEALED.
  - CAPPED PIPING ARE FOR NPPC FUTURE.
  - ANGLE DRAIN VALVES ARE INCLUDED IN MANUFACTURER'S DELUGE, ALARM CHECK OR DRY PIPE VALVE TRIP PACKAGE.
  - NO FLAG SHOWN ON CORRESPONDING DOCUMENT. COORDINATES PROVIDE INTERFACE LOCATION.
  - VALVE IS ABANDONED IN PLACE WITH ELECTRICAL WIRES DISCONNECTED.
  - DRUM HOSE LOCKS ARE USED ON THESE VALVE AND NOT HARD CORE LOCKS.

LR NOTE:  
PLEASE REFER TO DRAWING LR-000 SHEETS 2A THROUGH 2F FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

SAFETY RELATED QUALITY RELATED NON SAFETY RELATED (REF. SAR FIG. 9.1-5g & ISPT-43G)

Constellation Energy Group  
NINE MILE POINT NUCLEAR STATION UNIT 2 - SCRIBA, N.Y.  
PIPING & INSTRUMENTATION DIAGRAM  
FIRE PROTECTION - WATER

SCALE: NONE DRAWING NO: LR-43G-0

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