ES-148

TABLE 1.1-1
QUAD CITIES 1 ALTERNATE SAFE HOT SHUTDOWN EQUIPMENT LIST

LOCATION	RCIC (NOTE 2)	RHR SYSTEM (SEE NOTE 3) LPCI MODE	RHR SYSTEM (SEE NOTE 3) TORUS COOLING MODE	DIESEL GENERATORS (SEE NOTE 4) 1-6601 1/2-6601	INSTRUMENT RACKS 2201-5 2201-6	ELECTROMATIC RELIEF VALVES 1-0203-3A THRU 1-0203-3E	MECHANICAL SAFETY VALVES AND TARGET ROCK 1-0203-4A THRU 4H 1-0203-3A
REACTOR BUILDING - BASEMENT FLOOR FLOOR EL. 554'-0"		X(DIV.II)	X	X OR X	X OR X	X	
REACTOR BUILDING - GROUND FLOOR FLOOR EL. 595'-0"			X	X OR X	X OR X		X
REACTOR BUILDING - MEZZANINE FLOOR FLOOR EL. 623'-0"			X(DIV.II)	X OR X	USE INSTRUMENT RACKS 2202-7, 2202-8 & 2202-5B		X
REACTOR BUILDING - MAIN FLOOR FLOOR EL. 647'-6"	X		X	X OR X	X OR X	X	
REACTOR BUILDING - REACTOR FLOOR FLOOR PLAN EL. 666'-6"	X		X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING DRYWELL FLOORS EL. 554'-0", 595'-0", 623'-0", 647'-6", 666'-6"	X		X	X OR X	X OR X		X
CONTROL ROOM FLOOR PLAN EL. 623'-0"	X		X	X OR X	X OR X		X
CABLE ROOM FLOOR PLAN EL. 609'-0"	X		X	X OR X	X OR X		X
REMOTE SAFETY PANELS ROOM FLOOR EL. 615'-6"	X		X	X OR X	X OR X		X
ELECTRIC EQUIPMENT AND COMPUTER ROOM FLOOR PLAN EL. 595'-0"	X		X	X OR X	X OR X		X
BATTERY ROOMS FLOOR EL. 623'-6"	X		X	X OR X	X OR X	X	
CLEAN & DIRTY OIL ROOM FLOOR EL. 595'-0"	X		X	X OR X	CONTROL ROOM	X	
TURBINE BUILDING - BASEMENT FLOOR FLOOR EL. 547'-0"	X		X(USE UNIT 2 RHR SERV. WTR. PU'S.)	X OR X	CONTROL ROOM	X	
TURBINE BUILDING FLOOR PLAN EL. 572'-6" COLUMN ROWS 17-22	X		X(DIV.II RHR SERV. WTR.)	X OR X	X OR X	X	
UNIT 1 CABLE TUNNEL EL. 5[illegible]'-0"		X(DIV.I)	X(USE DIV.I RHR SERV. WTR. PU'S.)	X	X OR X	X	
TURBINE BUILDING - GROUND FLOOR EL. 595'-0"		X(DIV.I)	X(USE DIV.I RHR PU'S. UNIT 2 RHR SERV. WTR. PU'S.)	X	X OR X	X	
TURBINE BUILDING - MEZZANINE FLOOR EL. 61[illegible]'-0"	X		X(USE UNIT 2 RHR SERV. WTR. PU'S.)	X	X OR X	X	
TURBINE BUILDING - MAIN FLOOR EL. 639'-0"	X		X	X OR X	CONTROL ROOM	X	
TURBINE BUILDING AUX. SWITCHGEAR EL. 647'-6"	X		X	X OR X	CONTROL ROOM	X	
TURBINE BUILDING - FAN FLOOR EL. 626'-6"	X		X	X OR X	CONTROL ROOM	X	
DIESEL GENERATOR AREAS EL. 595'-0"			** X	X OR X	X OR X	X	
TURBINE BUILDING - RESIDUAL HEAT REMOVAL SERVICE WATER AND DIESEL GENERATOR COOLING UNIT 1 FLOOR EL. 547'-0"	X		X(USE UNIT 2 RHR SERV. WTR. PU'S.)	X OR X	CONTROL ROOM	X	
TURBINE BUILDING - HPCI UNIT 1 FLOOR EL. 554'-0"			X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 SOUTHWEST CORNER ROOM FLOOR EL. 554'-0"	X		X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 SOUTHEAST CORNER ROOM FLOOR EL. 554'-0"	X		X(DIV.II)	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 NORTHWEST CORNER ROOM FLOOR EL. 554'-0"		X	X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 NORTHEAST CORNER ROOM FLOOR EL. 554'-0"			X(DIV.II)	X OR X	CONTROL ROOM	X	

NOTE 1:
ALL EQUIPMENT DESIGNATED BY AN X FOR EACH ZONE LISTED ABOVE IS REQUIRED FOR SHUTDOWN.

NOTE 2:
RCIC INCLUDES FOLLOWING EQUIPMENT: RCIC PUMP 1-1302
RCIC TURBINE 1-1303
VACUUM PUMP
RCIC CONDENSATE PUMP
BAROMETRIC CONDENSER
RCIC ROOM EMERGENCY COOLER 1-5748B

** USE DIVISION ASSOCIATED WITH UNAFFECTED DIESEL GENERATOR

NOTE 3:
RHR INCLUDES FOLLOWING EQUIPMENT (ONE DIVISION SUFFICIENT FOR SAFE SHUTDOWN):

RHR PUMPS	1-1002A	RHR SERVICE WATER PUMPS	1-1001-65A
	1-1002B		1-1001-65B
	1-1002C		1-1001-65C
	1-1002D		1-1001-65D
RHR ROOM COOLERS	1-5746A	RHR SERV WTR PMP CUB COOLERS	1-5745A
	1-5746B		1-5745B
			1-5745C
			1-5745D

NOTE 4:
DIESEL GENERATORS INCLUDE FOLLOWING EQUIPMENT (ONE DIESEL AND ITS AUXILIARIES SUFFICIENT FOR SAFE SHUTDOWN):

DG COOLING WATER PUMPS	1-3903
	1/2-3903
DG CLG WTR PMP CUB COOLERS	1-5749
	1/2-5749
DG ROOM VENTILATION FANS	1-5727
	1/2-5727
DG FUEL OIL TRANSFER PUMPS	1-5203
	1/2-5203

TABLE 1.1-2
QUAD CITIES UNIT 1
ALTERNATE SAFE HOT SHUTDOWN VALVE LIST

RCIC VALVES

MO 1-1301-22	CONDENSATE STORAGE SUCTION ISOLATION VALVE
MO 1-1301-25	SUPPRESSION POOL SUCTION ISOLATION VALVE
MO 1-1301-26	SUPPRESSION POOL SUCTION ISOLATION VALVE
MO 1-1301-48	INJECTION LINE ISOLATION VALVE
MO 1-1301-49	INJECTION LINE ISOLATION VALVE
MO 1-1301-16	STEAM SUPPLY ISOLATION VALVE
MO 1-1301-17	STEAM SUPPLY ISOLATION VALVE
MO 1-1301-61	STEAM SUPPLY SHUTOFF VALVE
MO 1-1301-60	TEST RETURN TO SUPP. POOL ISOLATION VALVE
MO 1-1301-53	TEST RETURN TO COND. (TORAS) ISOLATION VALVE
MO 1-1301-62	COOLING WATER SHUTOFF VALVE

RHR VALVES

MO 1-1001-7A,B,C,D	RHR PUMP SUCTION FROM SUPPRESSION POOL ISOLATION VALVES
MO 1-1001-16A & B	RHR HX BYPASS VALVES
MO 1-1001-19A & B	RHR HX DISCHARGE CROSSTIE VALVES
MO 1-1001-34A & B	RHR RETURN TO SUPP. POOL ISOL. VALVES
MO 1-1001-36A & B	RHR RETURN TO SUPP. POOL ISOL. VALVES
MO 1-1001-37A & B	RHR RETURN TO SUPP. POOL SPRAY VALVES
MO 1-1001-28A & B	RHR LPCI INJECTION ISOLATION VALVES
MO 1-1001-29A & B	RHR LPCI INJECTION ISOLATION VALVES
MO 1-1001-18A & B	RHR PUMP MINIFLOW BYPASS VALVES
MO 1-1001-23A & B	RHR CONT SPRAY DRYWELL ISOLATION VALVES
MO 1-1001-26A & B	RHR CONT SPRAY DRYWELL ISOLATION VALVES
MO 1-1001-4A & B	RHR SW PUMP DISCHARGE ISOLATION VALVES
MO 1-1001-186A & B	RHR SW HX BYPASS ISOLATION VALVES
MO 1-1001-187A & B	RHR SW HX BYPASS ISOLATION VALVES
MO 1-1001-185A & B	RHR SW HX DISCHARGE ISOLATION VALVES
MO 1-1001-5A & B	RHR SW HX DISCHARGE ISOLATION VALVES

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[illegible]			FOR CECO USE	

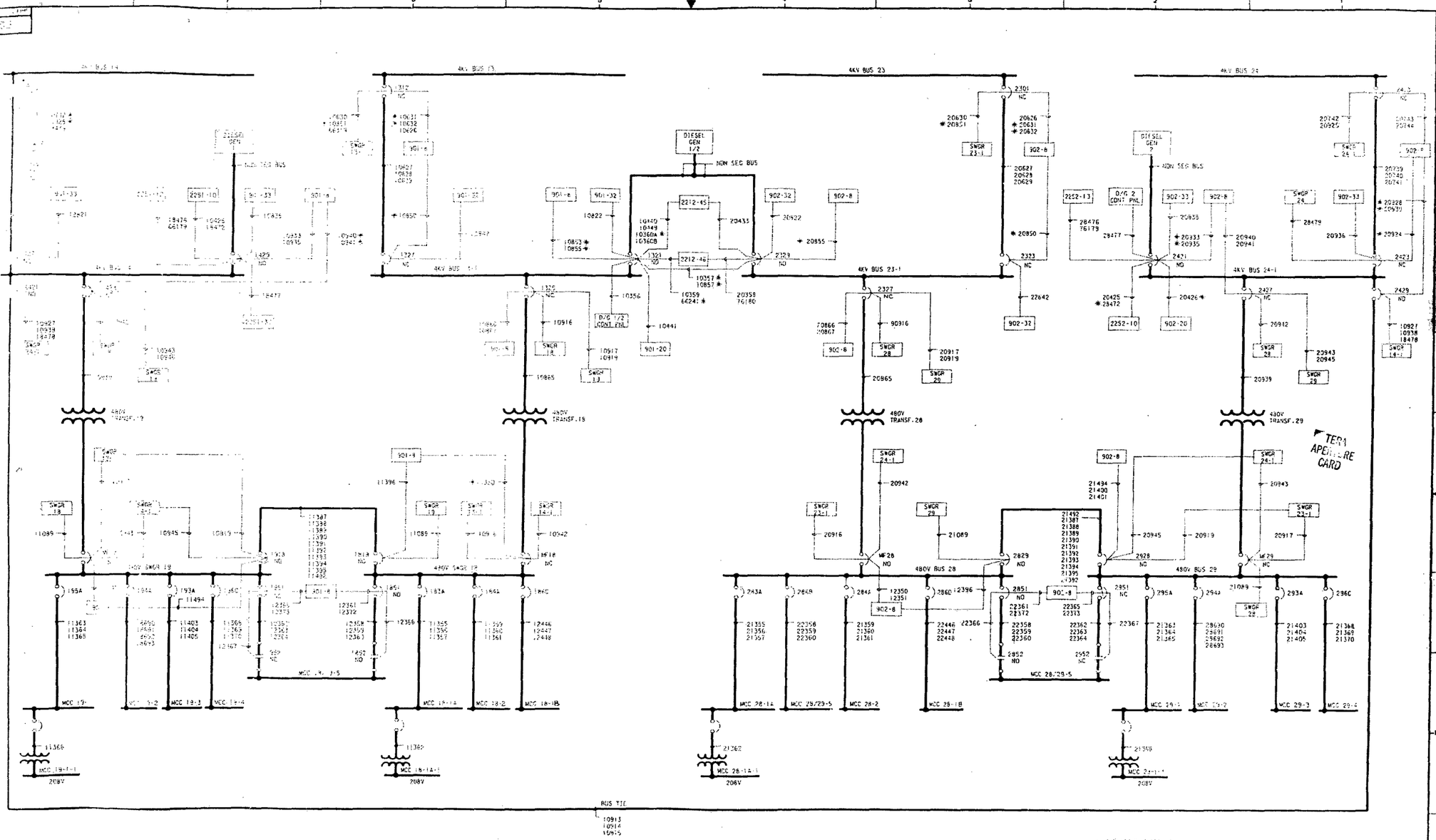
SCALE NONE
PROJECT NUMBER 6481

SHUTDOWN EQUIPMENT LIST
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON COMPANY
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0
SHEET 01

TERA APERTURE CARD



NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE RELD.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[illegible]			FOR CECO USE	

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0

SHEET 2 OF 1

ES-149

SHEET 2 OF

SAL ROAD FILE: DIAM5-5

SERVICE	LINE NUMBER / ZONE	UNIT 1																						UNIT 2																						UNIT 1 & 2				REMARKS
		1.1.1.1	1.1.2	1.1.2.2	1.1.2.3	1.1.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	
																										20053				20053	20053										20053	20053											
																										20054				20054	20054										20054	20054											
																										20055				20055	20055										20055	20055											
																														2005E											20056	20056					20056	20056	20056				
																																															20057	20057	20057				
																								20018		20018				20018	20018																							
																								20068						20068	20068																							
																								20069						20069	20069																							
																								20070						20070	20070																							
																														20071											20071	20071	20071					20071	20071	20071				
																																															75390	75390	75390				
																								20016		20016				20016	20016																							
																								20072						20072	20072																							
																								20073						20073	20073																							
																														20074											20074	20074	20074					20074	20074	20074				
																								20075		20075				20075	20075																							
																																														75390	75390	75390				
																										20058				20058	20058										20058	20058											
																										20059				20059	20059										20059	20059											
																										20060				20060	20060										20060	20060											
																										20061					20061										20061	20061	20061					20061	20061	20061				
																																															20062	20062	20062				
																														20063												20063	20063										
																														20064												20064	20064										
																														20065												20065	20065										
																														20066											20066	20066	20066					20066	20066	20066				
																																															20067	20067	20067				
																										20078				20078	20078										20078	20078											
																														20079											20079	20079	20079					20079	20079	20079				
																										20080				20080	20080										20080	20080											
																																														20081	20081	20081				
																										20096				20098	20098																							
																										20099				20099	20099										20099	20099											
																								20083						20083	20083																							
																																														20084	20084	20084				
																								20085						20085	20085																							
																										20087			20087														20087	20087											
																														20127	20127	20127									20127	20127											
																														20128	20128	20128																						
																								20088						20088	20088										20088	20088											
																								20089						20089	20089										20089	20089											
																								20090						20090	20090																							
																														20091											20091	20091	20091					20091	20091	20091				
																										20093				20093	20093										20093	20093											
																										20094				20094	20094										20094	20094											
																										20095				20095	20095																							
																														20096											20096	20096	20096					20096	20096	20096				
																																															20097	20097	20097				

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	10-15-81	[illegible]			FOR CONSTRUCTION	

SCALE: NONE
PROJECT NUMBER: 6401

HEATING OF ASSOCIATED CUBICLES BY FIRE PUMP
BRAIDWOOD NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS
CHICAGO, ILLINOIS

DRAWING NO: ES-149
REV: 0
SHEET 2 OF

ES-149

SHEET OF

S&L ECAD FILE QUAMIS.5

UNIT 1

SERVICE	EQUIP. NUMBER \ FIRE ZONE	1.1.1.1	11.1.3	11.2.1	11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
DIESEL GENERATOR 2 CONTROL & EXCITATION																								
DIESEL GENERATOR 2 AUXILIARIES	COOL. WTR. PUMP																							
	D/G WTR. PUMP [illegible] COOLER																							
	D/G ROOM VENT FAN																							
	D.OIL TRANSF. PUMP																							
	D/G START AIR COMP.																							
INSTRUMENT RACK 2202-5	LIS-263-59A																							
	LIS-263-57A																			26312				
																				27990				
	LIS-263-72A																							
	LIS-263-72C																							
	LIS-263-57B																			26313				
																				26792				
INSTRUMENT RACK 2202-6	LIS-263-59B																							
	LIS-263-58A																			26320				
																				27997				
	LIS-263-72B																							
	LIS-263-72D																							
	LIS-263-58B																			26321				
																				26789				
																				27222				
	[illegible]-52B																							

UNIT 2

SERVICE	EQUIP. NUMBER \ FIRE ZONE	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
DIESEL GENERATOR 2 CONTROL & EXCITATION																								20422
																								20423
																		20428	20428	20428		20428		20428
													24174							24174				24174
																		28452	28452	28452				28452
																								28457
																								28458
																								28459
																								28462
																								28464
																								28465
																								28466
																								28467
																								28468
																								28469
																								28470
																								28474
																		28476	28476	28476	28476			28476
DIESEL GENERATOR 2 AUXILIARIES	COOL. WTR. PUMP								22289						22289		22289		22289	22289		22289		
									22290												22290		22290	
									22365									22365	22365	22365				
								22367	22367															
	D/G WTR. PUMP [illegible] COOLER														28676		28676		28676	28676				
															28677		28677		28677	28677				
								28678	28678										28678	28678				
	D/G ROOM VENT FAN								22200											22200				22200
									22201											22201				22201
	D.OIL TRANSF. PUMP								22202											22202				22202
									22203											22203				22203
	D/G START AIR COMP.																			22385				22385
																				22386				22386
																				22389				22389
																				22390				22390
INSTRUMENT RACK 2202-5	LIS-263-59A							25110	25110									25110	25110					
								25123	25123									25123	25123					
	LIS-263-57A								26312											26312				
									27990											27990				
	LIS-263-72A								20880									20880	20880	20880				
									23956A									23956A	23956A	23956A				
	LIS-263-72C								20877									20877	20877	20877				
									23956B									23956B	23956B	23956B				
	LIS-263-57B								26313											26313				
									26792											26792				
INSTRUMENT RACK 2202-6	LIS-263-59B							25124	25124									25124	25124					
								29168	29168										29168					
	LIS-263-58A								26320											26320				
									27997											27997				
	LIS-263-72B								20966									20966	20966	20966				
									23966									23966	23966	23966				
	LIS-263-72D								20963									20963	20963	20963				
	LIS-263-58B								26321											26321				
									26789											26789				
									27222											27222				
	[illegible]-52B								20261									20261	20261	20261				
									22810									22810	22810	22810				

UNIT 1 & 2

SERVICE	EQUIP. NUMBER \ FIRE ZONE	2.0	3.0	6.3	8.1	9.0	REMARKS
DIESEL GENERATOR 2 CONTROL & EXCITATION							
		28452	28452	28452			
DIESEL GENERATOR 2 AUXILIARIES	COOL. WTR. PUMP						
		22365	22365	22365			
	D/G WTR. PUMP [illegible] COOLER						
	D/G ROOM VENT FAN						
	D.OIL TRANSF. PUMP						
	D/G START AIR COMP.						
INSTRUMENT RACK 2202-5	LIS-263-59A			25110			
		25123	25123	25123			
	LIS-263-57A	26312	26312				
		27990	27990				
	LIS-263-72A			20880			
				23956A			
	LIS-263-72C			20877			
				23956B			
	LIS-263-57B	26313	26313				
		26792	26792				
INSTRUMENT RACK 2202-6	LIS-263-59B	25124	25124	25124			
	LIS-263-58A	26320	26320				
		27997	27997				
	LIS-263-72B			20966			TERA
				23966			RTURE
	LIS-263-72D			20963			CARD
	LIS-263-58B	26321	26321				
		26789	26789				
		27222	27222				
	[illegible]-52B			20261			
				22810			

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-13-81	B. M[illegible]			FOR CECO USE	

SCALE NONE

PROJECT NUMBER 6451

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-149 REV 0

SHEET 0 OF

ES-149

SAIL BOARD SHEET NUMBER 5

SERVICE	FIRE ZONE / EQUIP. NUMBER	1.1.1.1	1.1.1.2	1.1.1.2.1	1.1.1.2.2	1.1.1.2.3	1.1.1.4	1.1.1.1.2	1.1.1.1.3	1.1.1.1.4	1.1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
ELECTROMATIC RELIEF VALVES 2-203-3A THRU 2-203-3E	POWER CABLES																													20264	20264				20264						20264	20264								20222				
																														20281	20281				20281						20281	20281								20222				
																														22951					22951						22951										22951			
																														22952	22952				22952						22952	22952	22952								22952			
																														23927	23927				23927						23927	23927	23927								23927			
	CONTROL CABLES																											20790	20790												20790	20790									20790			
																												20791	20791												20791	20791									20791			
																											20792			20792											20792	20792									20792			
																											20793			20793											20793	20793									20793			
																														20797												20797	20797									20797			
																											20798			20798											20798	20798									20798			
																												20823		20823											20823	20823									20823			
																											20824			20824											20824	20824									20824			
																															20877											20877	20877	20877								20877			
																															20880											20880	20880	20880								20880			
																															20963											20963	20963	20963								20963			
																															20966											20966	20966	20966								20966			
																																																					22669		
																								22812				22812		22812											22812	22812									22812	22812		
																										22819																22819										22819	22819		
																										23185			23183																										
																															25050											25050	25050	25050								25050			
																																																				25053		
																																																				25054	25054	25054		
	2-203-3A																													23654																										
																														23668	23668																										
																														23935	23535																										
																															24839											24839	24839	24839								24839	24839	24839	
	2-203-3B																													23657																										
																														23669	23669																										
																														23938	23938																										
																															24840											24840	24840	24840								24840	24840	24840	
	2-203-3C																													23661																										
																														23670	23670																										
																														23941	23941																										
																															24844											24844	24844	24844								24844	24844	24844	
	2-203-3D																													23662																										
																														23671	23671																										
																														23944	23944																										
	2-203-3E																																				22845																				
																														23667	23667																										
																														23672	23672																										
																														23947	23947																										
																															24849											24849	24849	24849								24849	24849	24849	

UNIT 1 | UNIT 2 | UNIT 1 & 2

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV.	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	5-10-81	[illegible]			CONSTRUCTION USE	

SCALE: NONE
PROJECT NUMBER: 4401

PROTECTION ASSOCIATED CIRCUITS BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
OFFICIAL ELECTRICAL DRAWING

SARGENT & LUNDY ENGINEERS
CHICAGO, ILLINOIS

DRAWING NO. ES-149 REV. 0
SHEET 1 OF 1

BUS TIE

4KV BUS 14 (ESS DIV.II)

1409 NC — RES.HT.REMOVAL SYS. SERVICE WATER PUMP 1C

DIESEL GEN 1/2 (ESS.DIV.II)

1427 NC — 4KV BUS 14-1 (ESS DIV.II) — 1429 NO

1423 NC — 480V TRANSF.19

1424 — RHRS PUMP 1D

1428 — RHRS PUMP 1C

4KV BUS 13 (ESS DIV.I)

1312 NC — 1308 — 1311

RES.HT.REMOVAL SYS. SERVICE WATER PUMP 1B

RES.HT.REMOVAL SYS. SERVICE WATER PUMP 1A

DIESEL GEN 1/2 (ESS.DIV.I)

1327 NC — 4KV BUS 13-1 (ESS DIV.I) — 1321 NO — 2329 NO

1325 NC — 480V TRANSF.18

1324 — RHRS PUMP 1B

1328 — RHRS PUMP 1A

(SEE SHEET 4) 250V D.C.R.B.MCC 1B

1-1301-17
1-1301-22
1-1301-25
1-1301-26
1-1301-48
1-1301-49
1-1301-53
1-1301-60
1-1301-61
1-1301-62

(SEE SHEET 4) 250V D.C.R.B.MCC 2B

2-1301-17
2-1301-22
2-1301-25
2-1301-26
2-1301-48
2-1301-49
2-1301-53
2-1301-60
2-1301-61
2-1301-62

4KV BUS 23 (ESS DIV.I)

2305 — RES.HT.REMOVAL SYS. SERVICE WATER PUMP 2A

2309 — RES.HT.REMOVAL SYS. SERVICE WATER PUMP 2B

2301 NC — 2323 NC — 4KV BUS 23-1 (ESS DIV.I)

2324 — RHRS PUMP 2A

2326 — RHRS PUMP 2B

2327 NC — 480V TRANSF.28

4KV BUS 24 (ESS DIV.II)

2402 — RES.HT.REMOVAL SYS. SERVICE WATER PUMP 2C

2406 — RES.HT.REMOVAL SYS. SERVICE WATER PUMP 2D

2413 NC — 2429 NC

DIESEL GEN 2 (ESS.DIV.II)

2421 NO — 4KV BUS 24-1 (ESS DIV.II) — 2423 NC

2424 — RHRS PUMP 2C

2426 — RHRS PUMP 2D

2427 NC — 480V TRANSF.29

MF19 NC — 480V BUS 19 (ESS.DIV.II)

MCC 19-1 — 480V-120/208V TRANSF.

MCC 19-2 — HEATER CHGR.1 — BATTERY CHGR.1 — AIR COMP.1A — AIR COMP.1B — A.P.U.COOL.FAN A,B — D/G 1/2 COOL.FAN A,B,C,D

MCC 19-4 — 1-1001-5B — 1-1001-7C — 1-1001-16A — 1-1001-19A — 1-1001-23A — 1-1001-26A — 1-1001-34A — 1-1001-36A — 1-1001-37A

1918 NO — 1951 NC — 1952 NC — MCC 18/19-5 — 1-1001-28A — 1-1001-28B — 1-1001-29A — 1-1001-29B

1819 NO — 1851 NO — 1852 NO

MF18 NC — 480V BUS 18 (ESS.DIV.I)

MCC 18-1A — 480V-120/208V TRANSF.

MCC 18-1A-1(208V) — 1-1001-18A — 1-1301-16

1-1001-4A — 1-1001-185A — 1-1001-186A — 1-1001-187A — D.D.TRANS.PU.1/2 — D/G AIR COMP.1/2B — RHR EMERG.AIR HLDG.UNIT 1A

1-1001-5A — 1-1001-7A — 1-1001-7B — 1-1001-16A — 1-1001-19A — 1-1001-23A — 1-1001-26A — 1-1001-34A — 1-1001-36A — 1-1001-37A

MCC 18-1B — 125V BATTERY CHGR.1A — 250V BATTERY CHGR.1/2 — D/G 1/2 C.W.PU.COOL.FAN A,B — RHR S.W.PU.1A COOL.FAN A,B,C,D — RHR S.W.PU.1B COOL.FAN A,B,C,D

MCC 18-2 — 125V BATTERY CHGR.1A — 250V BATTERY CHGR.1/2 — D/G 1/2 C.W.PU.COOL.FAN A,B — RHR S.W.PU.1A COOL.FAN A,B,C,D — RHR S.W.PU.1B COOL.FAN A,B,C,D

MF28 NC — 480V BUS 28 (ESS.DIV.I)

MCC 28-1A — 480V-120/208V TRANSF.

MCC 28-1A-1(208V) — 2-1001-18A — 2-1301-16

2-1001-4A — 2-1001-185A — 2-1001-186A — D/G AIR COMP.1/2A — D.D.TRANS.PG.1/2 — D/G RM.FAN 1/2 — RHR EMERG.AIR HLDG.UNIT 2A — HPCI EMERG.AIR HLDG.UNIT 2A

MCC 28-2 — 125V BATTERY CHGR.2A — 250V BATTERY CHGR.1/2 — RHR S.W.PU.2A FAN A,B,C,D — RHR S.W.PU.2B FAN A,B,C,D

MCC 28-1B — 2-1001-5A — 2-1001-7A — 2-1001-7B — 2-1001-16A — 2-1001-19A — 2-1001-26A — 2-1001-34A — 2-1001-36A — 2-1001-37A — 2-1001-187A

2829 NO — 2851 NO — 2852 NO — MCC 28/29-5 (ESS.DIV.I) — 2-1001-28A — 2-1001-28B — 2-1001-29A — 2-1001-29B

2928 NO — 2951 NC — 2952 NC — MCC 28/29-5 (ESS.DIV.II)

MF29 NC — 480V BUS 29 (ESS.DIV.II)

MCC 29-1 — 480V-120/208V TRANSF.

MCC 29-1-1(208V) — 2-1001-188

2-1001-4B — 2-1001-185B — 2-1001-186B — 2-1001-187B — D.D.TRANS.PU.2 — D/G RM.FAN 2 — RHR EMERG.AIR HLDG.UNIT 2B

MCC 29-2 — 125V BATTERY CHGR.2 — 250V BATTERY CHGR.2 — D/G AIR COMP.2A-2B — D/G C.W.PU.COOL.FAN A,B — RHR S.W.PU.2C FAN A,B,C,D — RHR S.W.PU.2D FAN A,B,C,D

MCC 29-4 — 2-1001-5B — 2-1001-7C — 2-1001-16B — 2-1001-19B — 2-1001-23B — 2-1001-26B — 2-1001-34B — 2-1001-36B — 2-1001-37B

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

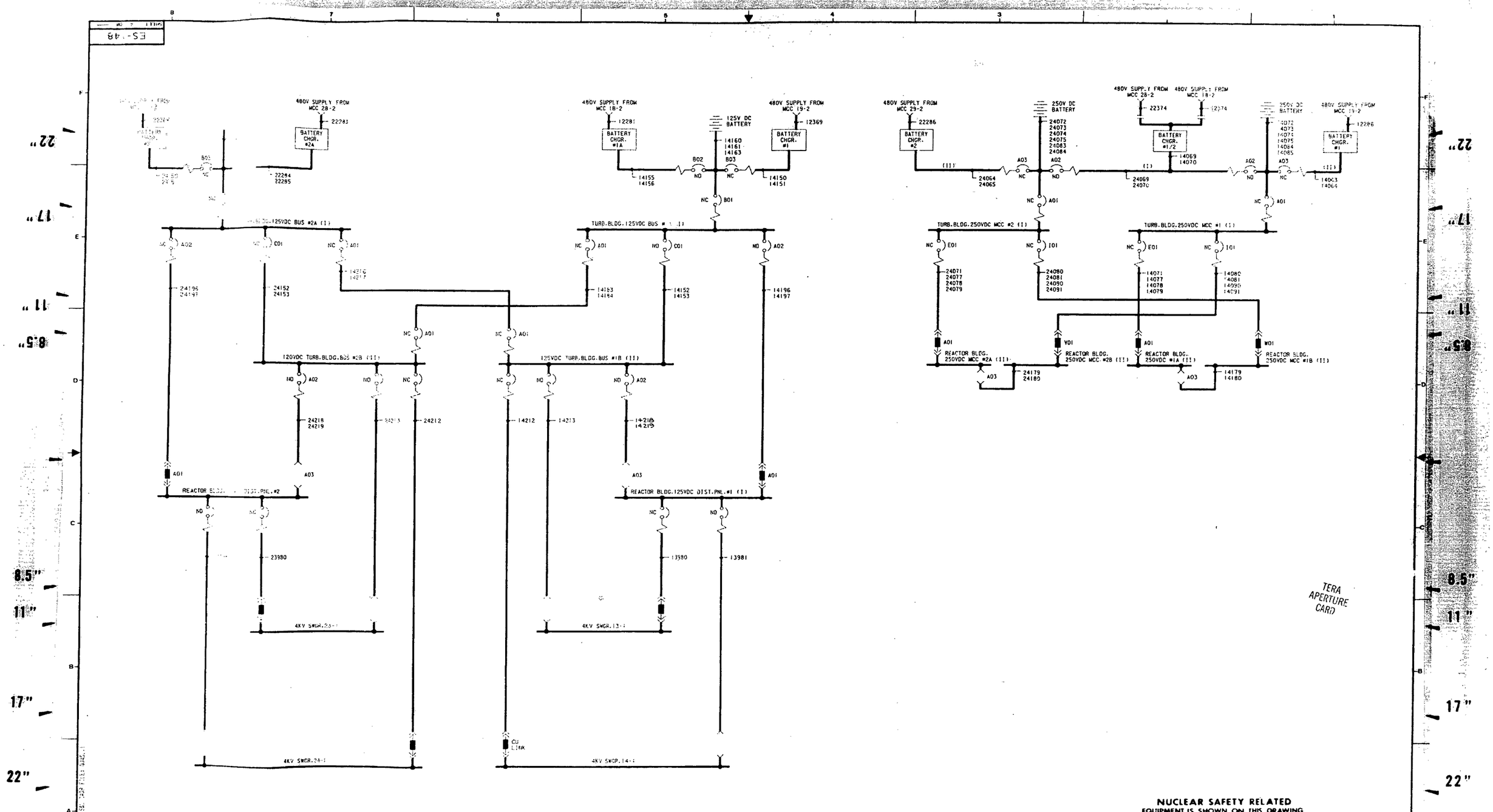
REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-15-81	D. Miller			For C.E.C.O. Use	

SCALE: NONE
PROJECT NUMBER: 6401-00

SINGLE LINE DIAGRAM
EQUIPMENT REQUIRED TO MAINTAIN HOT SHUTDOWN
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO: ES-148 REV: 0
SHEET OF



NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-13-81	[illegible]			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401-00

SARGENT & LUNDY ENGINEERS

DRAWING NO: ES-148 REV: 0

ES-148

UNIT 1

Service	1.1.1.1	1.1.3	[illegible]	1.2.[illegible]	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
125V D.C. DISTRIBUTION																							
[illegible] CHGR.1												12369							12369				
												14150											
												14151											
BATTERY CHGR.1A												12281							12281				
												14155											
												14156											
[illegible] 125V DC BUS FEED												14160											
												14161											
												14163											
[illegible] DC BUS FEED												14152											
												14153											
												14216							14216				
												14217							14217				
1A 125V DC DIST.PNL.1 FEED								14218				14218					14218	14218	14218				
								14219				14219					14219	14219	14219				
								14196				14196							14196				
								14197				14197							14197				
4KV SWGR.[illegible] DC FEED												14185						14185	14185				
												14201						14201	14201				
4KV SWGR.[illegible] DC FEED								13980											13980	13980			
												14213					14213	14213	14213	14213			
4KV SWGR.[illegible] DC FEED												14187											
												14203					14203	14203	14203				
4KV SWGR.14-1 DC FEED								13981											13981	13981			
												14212					14212	14212	14212	14212			
480V SWGR.18 DC FEED								13982	13982														
								14214				14214					14214	14214	14214				
480V SWGR.19								13983	13983														
								14215				14215					14215	14215	14215				
250V D.C. DISTRIBUTION																							
BATTERY CHGR.1												12286							12286				
									14063									14063					
												14064											
BATTERY CHGR.1/2												12374							12374				
												14069											
												14070											
												22374						22374	22374				
												24069						24069	24069				
												24069						24070	24070				
TB 250V DC MCC FEED													14072						14072				
													14073						14073				
													14074						14074				
													14075						14075				
												14083											
												14084											
[illegible] 250V DC MCC [illegible] FEED								14071				14071					14071	14071	14071				
								14077				14077					14077	14077	14077				
								14078				14078					14078	14078	14078				
								14079				14079					14079	14079	14079				
[illegible] 250V DC MCC [illegible] FEED							24080										24080						
							24081										24081						
							24090										24090						
							24091										24091						
[illegible] DC MCC [illegible]								14179															
								14180															

UNIT 2

Service	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
[illegible] DC BUS FEED												14216											
												14217											
BATTERY CHGR.1/2																	22374	22374	22374				
								24069				24069						24069	24069				
								24070				24070						24070	24070				
[illegible] 250V DC MCC [illegible] FEED																		24080	24080				
																		24081	24081				
																		24090	24090				
																		24091	24091				

UNIT 1 & 2

Service	2.0	3.0	6.3	8.1	3.0	REMARKS
BATTERY CHGR.1	14063	14063	14063			

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD						
REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[illegible]			FOR CECO USE	

SCALE NONE
PROJECT NUMBER [illegible]

ROUTING OF ASSOCIATED CIRCUITS BY [illegible] ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-148 REV. 0

ES-148

		UNIT 1																						UNIT 2																							UNIT 1 & 2					
SERVICE	EQUIP. NUMBER / FIRE ZONE	1.1.1.1	[illegible]	[illegible]	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	9.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
4160V BUSES 13-1 & 14-1 MAIN FEED BREAKERS	[illegible]																10614	10614		10614																											10614	10614	10614			
																		10619	10619	10619																											10619	10619				
																		10626	10626	10626																											10626	10626				
																		10630	10630	10630																																
																		10631	10631	10631																											10631	10631				
																		10632	10632	10632																											10632	10632				
																		10851	10851	10851																																
																		66319	66319	66319																																
	[illegible]						10443	10443											10443	10443																																
																		10630	10630	10630																																
																			10821	10821																												10821	10821			
																			10850	10850																											10850	10850				
																		10851	10851	10851																																
																			10854	10854																											10854	10854				
																			10858	10858																											10856	10858				
																			12842	12842																												12842	12842			
																		66319	66319	66319																																
	[illegible]																10743	10743		10743																											10743	10743	10743			
																	10744	10744		10744																											10744	10744	10744			
																	10745	10745		10745																											10745	10745	10745			
																	10925	10925	10925	10925																																
	[illegible]																10426	10428	10428	10428																																
																	10742	10742	10742	10742																																
																	10924	10924	10924	10924																											10924	10924	10924			
																	10325	10925	10925	10925																																
																	10931	10931	10931	10931																											10931	10931	10931			
																	10934	10934	10934	10934																											10934	10934	10934			
																		12724	12724	12724																													12724			
					12821												12521	12821		12821																													12821			
																		18471	18471	18471																																
4160V BUS 13-1 STAND-BY DIESEL 1/2 FEED BREAKER	[illegible]						10356	10356											10356	10356																																
																			10357	10357																																
							10359	10359											10359	10359																																
							10360A	10360A											10360A	10360A																																
							10360B	10360B											10360B	10360B																																
							10440	10440											10440	10440																																
																			10441	10441																											10441	10441				
							10449	10449											10449	10449																																
																			10822	10822																												10822	10822			
																			10853	10853																											10[illegible]	10853				
																			10855	10855																											10855	10855				
																			10857	10857																																
							66241	66241											66241	66241																																
	[illegible] BUS						BUS	BUS											BUS	BUS																															BUS	
4160V BUS 14-1 STAND-BY DIESEL 1 FEED & 24-1 TIE BREAKER	[illegible]																		10927	10927																																
																	10928	10928	10928	10928																											10928	10928	10928			
																	10930	10930	10930	10930																											10930	10930	10930			
																			10938	10938																																
																			18478	18478																																
	[illegible]																10425	10425	10425	10425																																
																	10426	10426	10426	10426																											10426	10426	10426			
																	10933	10933	10933	10933																											10933	10933	10933			
																	10935	10935	10935	10935																											10935	10935	10935			
																	10835	10835	10835	10835																													10935			
																	18472	18472	18472	18472			18472																													
																	18476	18476	18476	18476			18476																													
																	18477	18477	18477	18477			18477																													
																	66179	66179	66179	66179			66179																													
	[illegible] BUS																	BUS	BUS	BUS			BUS																													
	[illegible]																		10866	10866																											10866	10866				
																			10867	10867																											10867	10867				
								10916											10916	10916																																
								10917											10917	10917																																
								10919											10919	10919																																
								10865	10865																																											

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE RELD.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	B. Mills			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-148 REV. 0
SHEET 6 OF

ES-148

UNIT 1 | UNIT 2 | UNIT 1 & 2

SERVICE	WIRE NUMBER	TIE ZONE 1.1.1.1	1.1.1.2	1.1.2.2	1.2.3	1.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
480V TRANSFORMERS 1A & 1B BUSES 1A & 1B MAIN BREAKERS																																																				
								10942	10942																																												
								10943	10943																																												
								10945	10945																																												
								10939	10939																																												
								10916																																												
								10942	10942																																												
								11350	11350																																												
								11351	11351																																												
								11396	11396																																												
								13982	13982																																												
								14214				14214					14214	14214	14214																																		
								10917																																												
								10943	10943																																												
																			11089																																		
								11400	11400								11400			11400																																		
								11401	11401								11401			11401																																		
								13983	13983																																												
								14215				14215					14215	14215	14215																																		
																			11099		11089																																
									11347																																											
									11388																																											
									11389																																											
									11390																																											
									11391																																											
									11392																																											
									11393																																											
									11394																																											
									11395																																											
									11492																																											
								11355	11355																																												
								11356	11356	11356																																												
								11357	11357	11357																																												
									11359	11359																																												
									11360	11360																																												
									11361	11361																																												
								12358	12358	12358																																												
								12359	12359	12359																																												
								12360	12360	12360																																												
									12361	12361																																												
									12372	12372																																												
									11362																																											
									11363	11363																																												
									11364	11364																																												
									11365	11365																																												
									18690																																											
									18691																																											
									18692																																											
									18693																																											
								11403	11403	11403																																											
								11404	11404	11404																																											
								11405	11405	11405																																											
									11368																																											
									11369																																											
									11370																																											
																			18678																																	
								12362	12362	12362																																											
								12363	12363	12363																																												
								12364	12364	12364																																												
								12367	12367	12367																																												
									11373	11373																																												
									11374																																											

480V MISC. ANCILLARIES

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

TERA APERTURE CARD

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	R. Miller			FOR SECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO: ES-148
REV: 0
SHEET 1 OF

ES-148

SA. ECAD [illegible]

		UNIT 1																							UNIT 2																							UNIT 1 & 2					
SERVICE	EQUIP. NUMBER / FIRE ZONE	1.1.1.1	[illegible]	[illegible]	[illegible]	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
RHR SYSTEM PUMPS	[illegible]						10900	10900	10900											10900	10900																																
																				10902	10902																											10902	10902				
	[illegible]						10906	10906	10906											10906	10906																																
																				10908	10908																											10908	10908				
	[illegible]							10980											10980	10980	10980																																
																			10982	10982	10982	10982																										10982	10982	10982			
	[illegible]				[illegible]			10986											10986	10986	10986																																
																			10988	10988	10988	10988																										10988	10988	10988			
RHR ROOM COOLERS	[illegible]						11352	11352	11352																																												
							11353	11353	11353																																												
							11367	11367	11367																																												
									11406										11406	11406																														11406			
	[illegible]				11485			11485	11485																																												
					11487			11487	11487																																												
					11488			11488	11488																																												
								11489										11489																																11489			
RHR SERVICE WATER PUMPS	[illegible]														10688		10688		10688	10688																																	
																			10690	10690																												10690	10690				
																			10830	10830																													10830	10830			
	[illegible]														10694		10694		10694	10694																																	
																			10696	10696																												10696	10696				
	[illegible]														10800		10800		10800	10800																																	
																		10802	10802																													10802	10802	10802			
																		10805	10805																													10805	10805	10805			
																		10840	10840																															10840			
	[illegible]														10806		10806		10806	10806																																	
																		10808	10808																													10808	10808	10808			
																			10810	10810																																	
																		10813	10813																													10813	10813	10813			
																			18549																																		
RHR SERVICE WATER PUMP CUBICLE COOLERS	[illegible]														18509	18509	18509		18509	18509																																	
															18515	18515	18515		18515	18515																																	
															18526	18526	18526		18526	18526																																	
															18529	18529	18529		18529	18529																																	
																			18531	18531																																	
	[illegible]														18539	18539	18539		18539	18539																																	
															18541	18541	18541		18541	18541																																	
															18543	18543	18543		18543	18543																																	
															18545	18545	18545		18545	18545																																	
																			18547	18547																																	
	[illegible]														18651	18651	18651		18651	18651																																	
															18671	18671	18671		18671	18671																																	
															18672	18672	18672		18672	18672																																	
															18673	18673	18673		18673	18673																																	
																			18675																																		
	[illegible]																		18549																																		
															18679	18679	18679		18679	18679																																	
															18680	18680	18680		18680	18680																																	
															18683	18683	18683		18683	18683																																	
															18686	18686	18686		18686	18686																																	
[illegible]	[illegible]																		12446	12446																												12446	12446				
									12447																																												
									12448																																												

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	9-19-81	[illegible]			FOR CECO USE	

SCALE NONE
PROJECT NUMBER 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-148 REV. 0
SHEET 8 OF

SERVICE	EQUIP. NUMBER	UNIT 1																						UNIT 2																							UNIT 1 & 2					REMARKS
	FIRE ZONE	1.1.1.1	11.1.3	[illegible]	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	
RHR VALVES	MO1-1001-4A						10204	10204											10204																												10204	10204				
						10212	10212	10212																																												
						10227	10227	10227																																												
	MO1-1001-45						10228										10228	10228																													10228	10228	10228			
				229			10229																																													
					10233		10233	10233																																												
	MO1-1001-5A																																														10875	10875	10875			
						12502	12502																																													
						12705	12705	12705																																												
								12716											12716																												12716	12716				
								12953											12593																														12953			
	MO1-1001-5B																																														10960	10960	10960			
						12503	12503																																													
				706			12706	12706																																												
								12732									12732	12732	12732																												12732	12732	12732			
								12954											12954																														12954			
	MO1-1001-7A					10273	10273																																													
							12519																																													
						12520	12520																																													
						12521	12521	12521										12521	12521																												12521	12521				
							12522	12522										12522	12522																												12522	12522				
	MO1-1001-7B																		10292																												10292	10292				
						10293	10293	10293																																												
						12524	12524																																													
						12525	12525											12525	12525																																	
							12526	12526																																							12526	12526				
							12527	12527										12527	12527																												12527	12527				
	MO1-1001-7C			2891			12891	12891																																												
				2892			12892	12892																																												
							12893	12893										12893																													12893	12893				
				12950			12950	12950																																												
	MO1-1001-7D			12896			12896	12896																																												
				12897			12897	12897																																												
							12898	12898										12898																													12898	12898				
				13957			13957	13957																																												
	MO1-1001-16A	12680					12680	12680																																												
							12681	12681											12681																												12681	12681				
						12682	12682	12682																																												
																																															12725	12725	12725			
	MO1-1001-16B						12961	12961																																												
								12962									12962	12962	12962																												12962	12962				
		12963		2963			12963																																													
																																															12969	12969	12969			
	MO1-1001-18A																																														12674	12674	12674			
		12676					12676	12676																																												
							12677	12677											12677																												12677	12677				
		12678					12678	12678																																												
																																															12726	12726	12726			
	MO1-1001-18B																																														12955	12955	12955			
		12957					12957	12957																																												
								12958									12958	12958	12958																												12958	12958				
		12959					12959	12959																																							12984	12984	12984			
	MO1-1001-19A					12658	12658	12658																																												
							12659	12659											12659																												12659	12659				
						12660	12660	12660																																												
	MO1-1001-19B			[illegible]			12938	12938																																												
								12939									12939	12939																													12939	12939	12939			
				[illegible]			12940																																														

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-15-81	B. Mills			FOR CECO USE	

SCALE NONE
PROJECT NUMBER 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY
ENGINEERS
CHICAGO

DRAWING NO. ES-148 REV. 0
SHEET 9 OF

ES-148

S&L ECAD ... QUAMIS.3

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1: 1.1.1.1	11.1.3	[illegible]	11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	UNIT 1 & 2: 2.0	3.0	6.3	8.1	9.0	REMARKS
	MOI-1001-23A							12529	12529																					
								12530	12530										12530	12530					12530	12530				
								12531	12531																					
								12532	12532																12532	12532	12532			
	MOI-1001-23B								12901																					
									12902									12902	12902	12902					12902	12902				
									12903																					
		12904						12904	12904																12904	12904	12904			
	MOI-1001-26A							13951	13951																					
																									13952	13952	13952			
								13953	13953																					
									13955											13955					13955	13955				
	MOI-1001-26B																	10419	10419								10419			
									13961																					
																									13962	13962	13962			
									13965									13965	13965	13965					13965	13965	13965			
	MOI-1001-28A																									10200	10200			
								10271	10271											10271							10271			
		12662						12662																						
		12666						12666																						
								12667	12667											12667					12667	12667				
		12668						12668																						
	MOI-1001-28B							10279	10279									10279	10279								10279			
								10280																						
		12942						12942																						
		12946						12946																						
								12947										12947	12947						12947	12947	12947			
		12948						12948																						
	MOI-1001-29A	12662						12662																						
								12663	12663											12663					12663	12663				
		12664						12664																						
		12666						12666																						
																									12670	12670	12670			
	MOI-1001-29B																								12672	12672	12672			
		12942						12942																						
								12943										12943	12943						12943	12943	12943			
		12944						12944																						
		12946						12946																						
	MOI-1001-34A	12692						12692	12692																					
		12693						12693	12693																					
								12694	12694											12694					12694	12694				
																									12695	12695	12695			
	MOI-1001-34B	12965						12965	12965																					
		12966						12966	12966																					
									12967									12967	12967						12967	12967	12967			
																									12968	12968	12968			
	MOI-1001-36A	12534						12534	12534																					
								12535	12535																					
		12536						12536	12536																					
																									12537	12537	12537			
	MOI-1001-36B								12906																					
									12907									12907	12907	12907					12907	12907	12907			
		12908						12908	12908																					
																									12909	12909	12909			
	MOI-1001-37A	12701						12701	12701																					
		12702						12702	12702																					
									12703											12703					12703	12703				
																									12952	13952	13952			

EQUIP. NUMBER \ FIRE ZONE	UNIT 2: 1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
MOI-1001-23A																							
MOI-1001-23B																							
MOI-1001-26A																							
MOI-1001-26B																							
MOI-1001-28A																							
MOI-1001-28B																							
MOI-1001-29A																							
MOI-1001-29B																							
MOI-1001-34A																							
MOI-1001-34B																							
MOI-1001-36A																							
MOI-1001-36B																							
MOI-1001-37A																							

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE RELD.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	B. Mills			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER 640

ROUTING OF ASSOCIATED CIRCUITS BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-148 REV.

SHEET OF

ES-148

S&L ECAD FILE: QUAMIS-3

SERVICE	EQUIP. NUMBER	UNIT 1: 1.1.1.1	11.1.3		11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
RHR VALVES	MO-1001-37B	12973						12973	12973															
RHR VALVES	MO-1001-37B	12974																						
RHR VALVES	MO-1001-37B								12375									12975	12975	12975				
RHR VALVES	MO-1001-185A							10242	10242											10242				
RHR VALVES	MO-1001-185A						10243	10243	10243															
RHR VALVES	MO-1001-185A						10244	10244	10244															
RHR VALVES	MO-1001-185B							10245	10245									10245	10245					
RHR VALVES	MO-1001-185B						10246	10246	10246															
RHR VALVES	MO-1001-185B						10247	10247	10247															
RHR VALVES	MO-1001-186A				10234				10234											10234				
RHR VALVES	MO-1001-186A						10237	10237	10237															
RHR VALVES	MO-1001-186A						10238	10238	10238															
RHR VALVES	MO-1001-186B							10239	10239															
RHR VALVES	MO-1001-186B						10240	10240	10240															
RHR VALVES	MO-1001-186B						10241	10241	10241															
RHR VALVES	MO-1001-187A						10351	10351	10351											10351				
RHR VALVES	MO-1001-187A							10352																
RHR VALVES	MO-1001-187B							10367										10367	10367					
RHR VALVES	MO-1001-187B				10368			10368	10368															
RHR VALVES	MO-1001-187B				10369			10369	10369															
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP					10012		10012										10012						
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP							10021										10021						
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP							10022											10022	10022				
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP							10023											10023	10023				
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP								10004									10004						
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP	10006				10006		10006																
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP					10007		10007																
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP	10011																10011	10011					
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP							10019																
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP					66249		66249	66249															
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP								10000									10000	10000	10000				
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP	10002				10002		10002																
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP					10003		10003																
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP							10009																
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP	66248					66248	66248																
RCIC SYSTEM TURBINE & AUXILIARIES	EMERGENCY RM. COOLERS							12773	12773									12773	12773					
RCIC SYSTEM TURBINE & AUXILIARIES	EMERGENCY RM. COOLERS	12774				12774		12774	12774															
RCIC SYSTEM TURBINE & AUXILIARIES	EMERGENCY RM. COOLERS	12783				12783		12793	12783															
RCIC SYSTEM TURBINE & AUXILIARIES	EMERGENCY RM. COOLERS	12785				12785		12785	12785															
RCIC SYSTEM VALVES	MO-1301-16							10041																
RCIC SYSTEM VALVES	MO-1301-16							10042																
RCIC SYSTEM VALVES	MO-1301-16							10043																
RCIC SYSTEM VALVES	MO-1301-16							10044																
RCIC SYSTEM VALVES	MO-1301-16							10045	10045											10045				
RCIC SYSTEM VALVES	MO-1301-17							10048	10048											10048				
RCIC SYSTEM VALVES	MO-1301-17							10049	10049											10049				
RCIC SYSTEM VALVES	MO-1301-17							10050										10050						
RCIC SYSTEM VALVES	MO-1301-17							10051										10051						
RCIC SYSTEM VALVES	MO-1301-17							10136										10136						
RCIC SYSTEM VALVES	MO-1301-17							10139	10139															
RCIC SYSTEM VALVES	MO-1301-17							10309	10309									10309						

SERVICE	EQUIP. NUMBER	UNIT 2: 1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	UNIT 1 & 2: 2.0	3.0	6.3	8.1	9.0	REMARKS
RHR VALVES	MO-1001-37B																								12975	12975				
RHR VALVES	MO-1001-37B																								13967	13967	13967			
RHR VALVES	MO-1001-185A																								10242	10242				
RHR VALVES	MO-1001-185B																								10245	10245				
RHR VALVES	MO-1001-186A																								10234	10234				
RHR VALVES	MO-1001-186B																								10239	10239	10239			
RHR VALVES	MO-1001-187A																								10351	10351				
RHR VALVES	MO-1001-187A																								10353	10353	10353			
RHR VALVES	MO-1001-187B																								10367	10367	10367			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP																										10012			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP																								10017	10017	10017			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP																										10021			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP																									10022	10022			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP																								10023	10023	10023			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP																								10475	10475	10475			
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP																								10004	10004				
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP																								10005	10005	10005			
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP								10011																		10011			
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP																										15732			
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP																								10000	10000				
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP																								10001	10001	10001			
RCIC SYSTEM TURBINE & AUXILIARIES	CONDENSATE PUMP																										15731			
RCIC SYSTEM TURBINE & AUXILIARIES	EMERGENCY RM. COOLERS																										12773			
RCIC SYSTEM VALVES	MO-1301-16																								10045	10045				
RCIC SYSTEM VALVES	MO-1301-16																								10046	10046	10046			
RCIC SYSTEM VALVES	MO-1301-17																									10050				
RCIC SYSTEM VALVES	MO-1301-17																										10051			
RCIC SYSTEM VALVES	MO-1301-17																								10052	10052	10052			
RCIC SYSTEM VALVES	MO-1301-17																								10135	10135	10135			
RCIC SYSTEM VALVES	MO-1301-17																										10136			
RCIC SYSTEM VALVES	MO-1301-17																										10309			

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[signature]			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0

SHEET 1 OF

SHEET 12 OF
ES-148
S&L ECAD FILE: QUAMIS.3

		UNIT 1																							UNIT 2																							UNIT 1 & 2					
SERVICE	FIRE ZONE / EQUIP. NUMBER	1.1.1.1	11.1.3		11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
RCIC SYSTEM VALVES	MO1-1301-22	10053				10053		10053																																													
		10054				10054		10054																																													
		10055				10055		10055																																													
									10056									10056																														10056	10056				
																																																10057	10057	10057			
	MO1-1301-25							10018																																													
								10068																																													
								10069																																													
								10070																																													
									10071									10071																														10071	10071	10071			
																																																		65940			
	MO1-1301-26	10072				10072		10072																																													
		10073				10073		10073																																													
									10074																																							10074	10074	10074			
		10075				10075		10075																																													
																																																		65940			
	MO1-1301-48	10058				10058		10058																																													
		10059				10059		10059																																													
		10060				10060		10060																																													
									10061									10061																														10061	10061				
																																																10062	10062	10062			
	MO1-1301-49							10063																																													
								10064												10064																																	
								10065										10065																																			
								10066										10066																														10066	10066	10066			
																																																10067	10067	10067			
	MO1-1301-53	10078				10078		10078																																													
									10079																																							10079	10079	10079			
		10080				10080		13080																																													
																																																10081	10081	10081			
		10098				10098		10098																																													
		10099				10099		10099																																													
	MO1-1301-60	10083				10083		10083																																													
									10084																																							10084	10084	10084			
		10085				10085		10085																																													
																																																[illegible]	10086	10086			
								10087										10087																																10087			
		10127				10127		10127	10127																																												
		10128				10126		10128	10128																																												
	MO1-1301-61	10088				10088		10088	10088																																												
		10089				10089		10089	10089																																												
		10090				10090		10090	10090																																												
																																																10091	10091	10091			
																																																10092	10092	10092			
																																																		15731			
	MO1-1301-62	10093				10093		10093																																													
		10094				10094		10094																																													
		10095				10095		10095																																													
									10096																																							10096	10096	10096			
																																																10097	10097	10097			

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	B. Mills			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0
SHEET 12 OF

ES-148

S&L ECAD FILE: QUAMIS.4

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																							UNIT 2																							UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.3	[illegible]	1.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	
DIESEL GENERATOR 1 CONTROL & EXCITATION																								10422																													
																								10423																													
																		10428	10428	10428																															
													14174					14174	14174																																
																		18452						18452																							18452	18452	18452			
																								18457																													
																								18458																													
																								18459																													
																								18462																													
																								18464																													
																								18465																													
																								18466																													
																								18467																													
																								18468																													
																								18469																													
																								18470																													
																								18474																													
																		18476	18476	18476				18476																													
DIESEL GENERATOR 1 AUXILIARIES	COOL WATER PUMP								12289						12289	12289		12289	12289	12289		12289																															
									12290	12290								12290	12290	12290																																	
									12365	12365								12365	12365	12365																												12365	12365				
	COOL WATER PUMP CUB. COOLER														18676	18676	18676		18676	18676																																	
															18677	18677	18677		18677	18677																																	
									18678	18678										18678																																	
	D/G RM. VENT FAN								12223									12223	12223	12223																																	
									12224									12224	12224	12224																																	
	D.OIL TRANSF. PUMP								12216									12216	12216																																		
									12217									12217	12217																																		
	D/G START AIR COMP.																		12385	12385				12385																													
																			12386	12386				12386																													
																			12389	12389				12389																													
																			12390	12390				12390																													
DIESEL GENERATOR 1/2 CONTROL & EXCITATION																																																				10433	
																																																			10437	
																																																			10438	
								10443	10443											10443																																10443	
								10448												10448																												1044	10448			10448	
																																																			20436	
																																																			20437	
																																																			20438	
																																																			20441	
																																																			20443	
																																																			20444	
																																																			20446	
																																																			20447	
																																																			20448	
																																																			20449	
DIESEL GENERATOR 1/2 AUXILIARIES	COOL WATER PUMP															12383																																					
									12394	12394					12394		12394		12394	12394																																	
								12395	12395	12395																																										12395	
							12396			12396																																											
																22394																22394									22394	22394	22394		22394									
	COOL WATER PUMP CUB. COOLER														18533	18533	18533		18533	18533																																	
															18535	18535	18535		18535	18535																																	
									18536	18536										18536																																	
									18537	18537										18537													18537																				
	D/G RM. VENT FAN							13105	13105																																											13105	
								13106																																													
								13107	13107																																													
																															23105																						
																															23107																						

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-15-81	B. McD.			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0

SHEET 13 OF

ES-148 SHEET 14 OF

S&L ECAD QUAD CITIES

UNIT 1

SERVICE	EQUIP. NUMBER / FIRE ZONE	1.1.1.1	[illegible]	[illegible]	[illegible]	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
CONT'D FROM SH.13	D.OIL TRANSF PUMP							12711 12712 22711 22712	12711 12712															
	D/G START AIR COMP.							12979 12980 22979 22980	12979 12980										22979 22980					22979
INSRTUMENT RACK 2201-5	LIS-263-59A								15110										15110	15110				
	LIS-263-57A								16312 17990											16312 17990				
	LIS-263-72A								13956 10880										13956 10880	13956 10880				
	LIS-263-72C								10877										10877	10877				
	LIS-263-57B								16313 16792											16313 16792				
INSRTUMENT RACK 2201-6	LITS-263-59B							15124	15124										15124	15124				
	LIS-263-58A								16320 17997											16320 17997				
	LIS-263-72B								10133 13966									10133 13966	10133 13966	10133 13966				
	LIS-263-72D								10963 10966									10963 10966	10963 10966	10963 10966				
	PI 263-52B								10261 12810									10261 12810	10261 12810	10261 12810				
	LIS-263-58B								16321 16789											16321 16789				

UNIT 2

SERVICE	EQUIP. NUMBER / FIRE ZONE	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
CONT'D FROM SH.13	D.OIL TRANSF PUMP							22711 22712	22711 22712															
	D/G START AIR COMP.							22979 22980	22979 22980															
INSRTUMENT RACK 2201-5	LIS-263-59A																							
	LIS-263-57A																							
	LIS-263-72A																							
	LIS-263-72C																							
	LIS-263-57B																							
INSRTUMENT RACK 2201-6	LITS-263-59B																							
	LIS-263-58A																							
	LIS-263-72B																							
	LIS-263-72D																							
	PI 263-52B																							
	LIS-263-58B																							

UNIT 1 & 2

SERVICE	EQUIP. NUMBER / FIRE ZONE	2.0	3.0	6.3	8.1	9.0	REMARKS
CONT'D FROM SH.13	D.OIL TRANSF PUMP					22711 22712	
	D/G START AIR COMP.						
INSRTUMENT RACK 2201-5	LIS-263-59A	15110	15110				
	LIS-263-57A	16312 17990	16312 17990				
	LIS-263-72A			13956 10880			
	LIS-263-72C			10877			
	LIS-263-57B	16313 16792	16313 16792				
INSRTUMENT RACK 2201-6	LITS-263-59B	15124	15124				
	LIS-263-58A	16320 17997	16320 17997				
	LIS-263-72B			10133 13966			
	LIS-263-72D			10963 10966			
	PI 263-52B			10261 12810			
	LIS-263-58B	16321 16789	16321 16789				

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	6-15-81	B. Miller			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0
SHEET 14 OF

ES-148

SHEET OF

S&L ECAD FILE: QUAMIS.4

		UNIT 1																							UNIT 2																							UNIT 1 & 2					
SERVICE	FIRE ZONE / EQUIP. NUMBER	1.1.1.1	11.1.3		11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
ELECTROMATIC RELIEF VALVES 1-203-3A THRU 1-203-3E	PWR. CABLES																																																		10221			
																																																		10222			
									10272																																											
									10275																																											
													12951							12951																														12951			
													12952																																				12952	12952			
													13927																																				13927	13927			
	CONTROL CABLES																																																		10738			
								10790	10790											10790																													10790	10790			
								10791	10791											10791																													10791	10791			
									10792									10792	10792																															10792			
									10793									10793	10793																															10793			
		10797						10797	10797									10797	10797																														10797	10797			
		10798						10798										10798	10798																															10798			
							10823	10823	10823										10823	10823																														10823			
					10824			10824										10824	10824																															10824			
									10877										10877	10877																														10877			
									10880										10880	10880																														10880			
																																																		12669			
		12812				12812		12812	12812											12812																													12812	12812			
		12819				12819		12819										12819	12819																															12819			
						13183																																															
									13916									13916	13916	13916																														13916			
																																																13920	13920			
									13934																																								13934	13934			
									15050											15050																													15050	15050			
																																																		15053			
																																																15054	15054	15054			
	1-203-3A								13654																																												
								13668	13668																																												
								13935	13935																																												
								14839	14839																																												
								15061	15061											15061																												15061	15061				
	1-203-3B								13657																																												
								13669	13669																																												
								13938	13936																																												
								14840	14840																																												
								15069	15069											15069																												15069	15069				
	1-203-3C								13661																																												
								13670	13670																																												
								13905	13905											13905																												13905	13905				
								13941	13941																																												
								14844	14844																																												
	1-203-3D								13662																																												
								13671	13671																																												
								13906	13906											13906																												13906	13906				
								13944	13944																																												
								14845	14845																																												
	1-203-3E								13667																																												
								13672	13672																																												
									13940											13940																												13940	13940				
								13672	13672																																												
								14845	14845																																												

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD						
REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	6-15-81	[illegible]			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV. 0
SHEET 15 OF

ES-149

TABLE 1.2-1
QUAD CITIES 2 ALTERNATE SAFE HOT SHUTDOWN EQUIPMENT LIST

LOCATION	RCIC (SEE NOTE 2)	RHR SYSTEM (SEE NOTE 3) LPCI MODE	RHR SYSTEM (SEE NOTE 3) TORUS COOLING MODE	DIESEL GENERATORS (SEE NOTE 4) 2-6601 1/2-6601	INSTRUMENT RACKS 2202-5 2202-6	ELECTROMATIC RELIEF VALVES 2-0203-3A THRU 2-0203-3E	MECHANICAL SAFETY VALVES AND TARGET ROCK 2-0203-4A THRU 4H, 2-0203-3A
REACTOR BUILDING - BASEMENT FLOOR		X(DIV.II)	X	X OR X	X OR X	X	
FLOOR EL.554'-0"							
REACTOR BUILDING - GROUND FLOOR			X	X OR X	X OR X		X
FLOOR EL.595'-0"							
REACTOR BUILDING - MEZZANINE FLOOR			X(DIV.II)	X OR X	USE INSTRUMENT RACKS 2202-1,2202-4 & 2202-5B		X
FLOOR EL.623'-0"							
REACTOR BUILDING - MAIN FLOOR	X		X	X OR X	X OR X	X	
FLOOR EL.647'-6"							
REACTOR BUILDING - REACTOR FLOOR	X		X	X OR X	CONTROL ROOM	X	
FLOOR PLAN EL.666'-6"							
REACTOR BUILDING DRYWELL FLOORS EL.554'-0", 595'-0", 623'-0", 647'-6", 666'-6"	X		X	X OR X	X OR X		X
CONTROL ROOM FLOOR PLAN EL.623'-0"	X		X	Y OR X	X OR X		X
CABLE ROOM FLOOR PLAN EL.609'-0"	X		X	X OR X	X OR X		X
REMOTE SAFETY PANELS ROOM FLOOR EL.613'-6"	X		X	X OR X	X OR X		X
ELECTRIC EQUIPMENT AND COMPUTER ROOM FLOOR PLAN EL.595'-0"	X		X	X OR X	X OR X		X
BATTERY ROOMS FLOOR EL.628'-6"	X		X	X OR X	X OR X	X	
OCEAN & DIRTY OIL ROOM FLOOR EL.591'-0"	X		X	X OR X	CONTROL ROOM	X	
TURBINE BUILDING - BASEMENT FLOOR	X		X(USE UNIT 1 RHR SERV.WTR.PU'S.)	X OR X	CONTROL ROOM	X	
FLOOR EL.547'-0"							
TURBINE BUILDING FLOOR PLAN EL.572'-6"	X		X(DIV.II RHR SERV.WTR.)	X OR X	X OR X	X	
COLUMN C-E/ROW 4-9 UNIT 2 CABLE TUNNEL EL.580'-0"		X(DIV.I)	X(USE UNIT 1 RHR SERV.WTR.PU'S.)	X	X OR X	X	
TURBINE BUILDING - GROUND FLOOR EL.595'-0"		X(DIV.I)	X(USE UNIT 1 RHR SERV.WTR.PU'S.)	X	X OR X	X	
TURBINE BUILDING - MEZZANINE FLOOR EL.615'-6"	X		X(USE UNIT 1 RHR SERV.WTR.PU'S.)	X	X OR X	X	
TURBINE BUILDING - MAIN FLOOR EL.639'-0"	X		X	X OR X	CONTROL ROOM	X	
TURBINE BUILDING 480V SWITCHGEAR EL.647'-6"	X		X	X OR X	CONTROL ROOM	X	
TURBINE BUILDING - FAN FLOOR EL.628'-6"	X		X	X OR X	CONTROL ROOM	X	
DIESEL - GENERATOR AREAS EL.595'-0"	X		X **	X OR X	X OR X	X	
TURBINE BUILDING - RESIDUAL HEAT REMOVAL SERVICE WATER AND DIESEL - GENERATOR COOLING. UNIT 2 FLOOR EL.547'-0"	X		X(USE UNIT 1 RHR SERV.WTR.PU'S.)	X OR X	CONTROL ROOM	X	
TURBINE BUILDING - HPCI UNIT 2 FLOOR EL.554'-0"	X		X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 2 SOUTHWEST CORNER ROOM FLOOR EL.554'-0"		X	X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 2 SOUTHEAST CORNER ROOM FLOOR EL.554'-0"	X		X(DIV.I)	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 2 NORTHWEST CORNER ROOM FLOOR EL.554'-0"	X		X	X OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 2 NORTHEAST CORNER ROOM FLOOR EL.554'-0"	X		X(DIV.II)	X OR X	CONTROL ROOM	X	

NOTE 1:
ALL EQUIPMENT DESIGNATED BY AN X FOR EACH ZONE LISTED ABOVE IS REQUIRED FOR SHUTDOWN.

NOTE 2:
RCIC INCLUDES FOLLOWING EQUIPMENT:
- RCIC PUMP 2-1302
- RCIC TURBINE 2-1303
- VACUUM PUMP
- RCIC CONDENSATE PUMP
- BAROMETRIC CONDENSER
- RCIC ROOM EMERGENCY COOLER 2-5746B

** USE DIVISION ASSOCIATED WITH UNAFFECTED DIESEL GENERATOR

NOTE 3:
RHR INCLUDES FOLLOWING EQUIPMENT: (ONE DIVISION SUFFICIENT FOR SAFE SHUTDOWN)

RHR PUMPS	2-1002A	RHR SERVICE WATER PUMPS:	2-1001-65A
	2-10028		2-1001-65B
	2-1002C		2-1001-65C
	2-1002D		2-1001-65D
RHR ROOM COOLERS:	2-5746A	RHR SERV WTR PMP CUB COOLERS:	2-5745A
	2-5746B		2-5745B
			2-5745C
			2-5745D

NOTE 4:
DIESEL GENERATORS INCLUDE FOLLOWING EQUIPMENT: (ONE DIESEL AND ITS AUXILIARIES SUFFICIENT FOR SAFE SHUTDOWN)

DG COOLING WATER PUMPS	2-3903
	1/2-3903
DG ENG WTR PMP CUB COOLERS	2-5749
	1/2-5749
DG ROOM VENTILATION FANS	2-5727
	1/2-5727
DG FUEL OIL TRANSFER PUMPS	2-5203
	1/2-5203

TABLE 1.2-2
QUAD CITIES UNIT 2
ALTERNATE SAFE HOT SHUTDOWN VALVE LIST

RCIC VALVES

MO2-1301-22	CONDENSATE STORAGE SUCTION ISOLATION VALVE
MO2-1301-25	SUPPRESSION POOL SUCTION ISOLATION VALVE
MO2-1301-26	SUPPRESSION POOL SUCTION ISOLATION VALVE
MO2-1301-48	INJECTION LINE ISOLATION VALVE
MO2-1301-49	INJECTION LINE ISOLATION VALVE
MO2-1301-16	STEAM SUPPLY ISOLATION VALVE
MO2-1301-17	STEAM SUPPLY ISOLATION VALVE
MO2-1301-61	STEAM SUPPLY SHUTOFF VALVE
MO2-1301-60	TEST RETURN TO SUPP.POOL ISOLATION VALVE
MO2-1301-63	TEST RETURN TO CONDENSATE ISOLATION VALVE
MO2-1301-62	COOLING WATER SHUTOFF VALVE

RHR VALVES

MO2-1001-74A,B,C,D	RHR PUMP SUCTION FROM SUPPRESSION POOL ISOLATION VALVES
MO2-1001-66A & B	RHR HX BYPASS VALVES
MO2-1001-49A & B	RHR HX DISCHARGE CROSSTIE VALVES
MO2-1001-34A & B	RHR RETURN TO SUPP.POOL ISOLATION VALVES
MO2-1001-36A & B	RHR RETURN TO SUPP.POOL ISOLATION VALVES
MO2-1001-37A & B	RHR RETURN TO SUPP.POOL SPRAY VALVES
MO2-1001-29A & B	RHR LPCI INJECTION ISOLATION VALVES
MO2-1001-29A & B	RHR LPCI INJECTION ISOLATION VALVES
MO2-1001-18A & B	RHR PUMP MINIFLOW BYPASS VALVES
MO2-1001-23A & B	RHR CONT SPRAY OUTBOARD ISOLATION VALVES
MO2-1001-26A & B	RHR CONT SPRAY INBOARD ISOLATION VALVES
MO2-1001-44A & B	RHR SW PUMP DISCHARGE ISOLATION VALVES
MO2-1001-186A & B	RHR SW HX BYPASS ISOLATION VALVES
MO2-1001-187A & B	RHR SW HX BYPASS ISOLATION VALVES
MO2-1001-185A & B	RHR SW HX DISCHARGE ISOLATION VALVES
MO2-1001-45A & B	RHR SW HX DISCHARGE ISOLATION VALVES

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD																			
REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM	REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
							0	5-19-81				FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

SHUTDOWN EQUIPMENT LIST
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON COMPANY
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO: ES-149
REV: 0
SHEET 1 OF

ALL REPRODUCTIONS MUST BE MADE FROM THIS ORIGINAL

17"
22"

ES-149

SWGR/DC	FIRE ZONE / CUBICLE	UNIT 1																						UNIT 2																						UNIT 1 & 2					REMARKS
		1.1.2.1	1.1.3	1.1.4	1.2.3	1.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	1.1.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	1.1.1.4	1.3.1	1.3.2	1.3.3	1.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	1.1.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	9.1	9.0	
125V DC DISTRIBUTION	BATT.CHGR.1																																		22369							22369											
	BATT.CHGR.1A																																		22283							22283											
	125V DC MCC 1A FEED																																		24160	24160																	
																																			24161	24161																	
																																					24163																	
	125V DC MCC 2B FEED											13183					14183	14183	14183																																			
												13184					14184	14184	14184																																			
																																			24152																		
																																			24153																		
	125V DC MISC.PNL.2 FEED																														24196				24196							24196											
																															24197				24197							24197											
																													24218						24218						24218	24218										
																													24219						24219						24219	24219										
	4kV SWGR 23 DC FEED																																		24201						24201	24201										
																																			24185						24185	24185										
	4kV SWGR 23-1 DC FEED																																		24213							24213	24213									
																															23980											23980	23980									
	4kV SWGR 24 DC FEED																																		24203						24203	24203										
																																			24187						24187	24187										
	4kV SWGR 24-1 DC FEED																														23981											23981	23981									
																																			24212							24212	24212									
	480V SWGR 28 DC FEED																														23982	23982																				
																															24214				24214							24214										
	480V SWGR 29 DC FEED																														23983											23983										
																															24215				24215							24215										
	BATT.CHGR.2																																		22286							22286										
																																			24064							24064										
																																			24065							24065										
	125V DC MCC 2 FEED																																		24072	24072						24072										
																																			24073	24073						24073										
																																			24074	24074						24074										
																																			24075																		
																																				24083																	
																																				24084																	
	125V DC MCC 2A FEED																														24071				24071							24071										
																															24077				24077							24077										
																															24078				24078							24078										
																															24079				24079							24079										
	125V DC MCC 2B FEED											14080																			14080				14080					14080	14080	14080									
												14081																			14081				14081					14081	14081	14081									
												14090																			14090				14090					14090	14090	14090									
												14091																			14091				14091					14091	14091	14091									
	125V DC MCC 2A & 2B FEED																												25179																							
																													24180																							

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	5-19-81	[illegible]			FOR CASE USE	

SCALE: NONE
PROJECT NUMBER: 7447

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-149 REV. 0

SHEET 2 OF

ES-149

UNIT 1

SERVICE	BREAKER	1.1.1.1	[illegible]	[illegible]	1.1.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.5.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
4160V BUSES 23-1 & 24-1 MAIN FEED BREAKERS	52-2423														20739									
															20740									
4160V BUS 23-1 STANDBY DIESEL 1/2 FEED BREAKER	152-2329																			10357				
																				10857				
	NON-SEG.BUS							BUS	BUS															
4160V BUS 24-1 STANDBY DIESEL 2 FEED [illegible] TIE BREAKER	152-2429																			10913		10913		
																				10914		10914		
																				10915		10915		
																				10927		10927		
																				10938		10938		
																				19478		18478		

UNIT 2

SERVICE	BREAKER	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
4160V BUSES 23-1 & 24-1 MAIN FEED BREAKERS	[illegible]																	20626	20626					
																		20630	20630	20630				
																		20631	20631					
																		20632	20632					
																		20851	20851	20851				
	[illegible]																	20627	20627	20627				
																		20628	20628	20628				
																		20629	20629	20629				
																		20630	20630	20630				
																		20821	20821	20821	20821			
																		20850	20850	20850	20850			
																		20851	20851	20851				
																		20858	20858	20858	20858			
																		22842	22842	22842	22842			
	152-2413																	20742	20742	20742				
																		20743	20743	20743				
																		20744	20744	20744				
																		20745	20745	20745				
																		20925	20925	20925				
	52-2423																	20739	20739	20739				
																		20740	20740	20740				
																		20741	20741	20741				
																		20742	20742	20742				
																		20923	20923	20923	20923			
																		20924	20924	20924	20924			
																		20925	20925	20925				
																		20936	20936	20936	20936			
																		22724	22724	22724	22724			
																			28479	28479				
4160V BUS 23-1 STANDBY DIESEL 1/2 FEED BREAKER	152-2329							20359	20359											20359	20359			
								20433	20433											20433		20433		
																		20822	20822	20822	20822			
																		20855	20855	20855	20855			
								76180	76180											76180		76180		
	NON-SEG.BUS								BUS											BUS	BUS			
4160V BUS 24-1 STANDBY DIESEL 2 FEED [illegible] TIE BREAKER	152-2421																	20425	20425	20425	20425			20425
																		20426	20426	20426	20426			
																		20835	20835	20835	20835			
																		20933	20933	20933	20933			
																		20935	20935	20935	20935			
																		28472	28472	28472	28472			28472
																		28476	28476	28476	28476			28476
																		28477	28477	28477	28477			28477
																		76179	76179	76179		76179		76179
	NON-SEG.BUS																		BUS	BUS	BUS			BUS
	152-2429																			10913		10913		
																				10914		10914		
																				10915		10915		
																				10927		10927		
																				10938		10938		
																				18478		18478		
																		20928	20928	20928	20928			
																		20930	20930	20930	20930			
480V TRANSFORMERS 28 & 29 [illegible] MAIN BREAKER	[illegible]								20865											20865	20865	20865		
																		20866	20866	20866	20866	20866		
																		20867	20867	20867	20867	20867		
									20916											20916	20916	20916		
									20917											20917	20917	20917		
									20919											20919	20919	20919		
	[illegible]								20939											20939	20939	20939		
																		20940	20940	20940	20940			
																		20941	20941	20941	20941			
									20942											20942	20942	20942		
									20943											20943	20943	20943		
									20945											20945	20945	20945		

UNIT 1 & 2

SERVICE	BREAKER	2.0	3.0	6.3	8.1	9.0	REMARKS
4160V BUSES 23-1 & 24-1 MAIN FEED BREAKERS	[illegible]	20626	20626	20626			
		20631	20631	20631			
		20632	20632	20632			
	[illegible]			20821			
		20850	20850	20850			
		20858	20858	20858			
				22842			
	152-2413	20743	20743	20743			
		20744	20744	20744			
		20745	20745	20745			
	52-2423			20923			
		20924	20924	20924			
		20936	20936	20936			
				22724			
4160V BUS 23-1 STANDBY DIESEL 1/2 FEED BREAKER	152-2329			20822			
		20855	20855	20855			
						76180	
	NON-SEG.BUS					BUS	
4160V BUS 24-1 STANDBY DIESEL 2 FEED [illegible] TIE BREAKER	152-2421	20426	20426	20426			
				20835			
		20933	20933	20933			
		20935	20935	20935			
	152-2429	20928	20928	20928			
		20930	20930	20930			
480V TRANSFORMERS 28 & 29 [illegible] MAIN BREAKER	[illegible]	20866	20866	20866			
		20867	20867	20867			
	[illegible]	20940	20940	20940			
		20941	20941	20941			

TEXT APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81				FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 640

ROUTING OF ASSOCIATED CIRCUITS BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-149 REV. 0

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1: 1.1.1.1	11.1.3	[illegible]	11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
480V TRANSFORMERS 28 & 29 BUSES 28 & 29 MAIN BREAKERS	252-MF28																							
	252-MF29																							
	252-2829 252-2928																							
480V MISC. AUXILIARIES	MCC 28-1A																							
	MCC 28-1B																							
	MCC 28-2																							
	MCC 28/29-5																							
	MCC 28-1A-1																							
	MCC 29-1																							
	MCC 29-2																							
	MCC 29-3																							
	MCC 29-4																							
	MCC 28/29-5																							
	[illegible]																							

SERVICE	EQUIP. NUMBER	UNIT 2: 1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	UNIT 1 & 2: 2.0	3.0	6.3	8.1	9.0	REMARKS
480V TRANSFORMERS 28 & 29 BUSES 28 & 29 MAIN BREAKERS	252-MF28								20916											20916	20916	20916								
									20942											20942	20942	20942								
									21350									21350	21350	21350		21350			21350	21350	21350			
									21396									21396	21396	21396		21396			21396	21396	21396			
									21551									21551	21551	21551		21551			21551	21551	21551			
																						21089								
	252-MF29								20917											20917	20917	20917								
									20919											20919	20919	20919								
									20943																					
									21400									21400	21400	21400		21400			21400	21400	21400			
									21401									21401	21401	21401		21401			21401	21401	21401			
									21494									21494	21494			21494			21494	21494	21494			
	252-2829 252-2928																			20945	20945	20945								
																						21089								
																						21387								
																						21388								
																						21389								
																						21390								
																						21391								
																						21392								
																						21393								
																						21394								
																						21395								
									21396									21396	21396	21396		21396			21396	21396	21396			
																						21492								
480V MISC. AUXILIARIES	MCC 28-1A								21355													21355								
									21356													21356								
									21357													21357								
	MCC 28-1B								22446																					
									22447																					
									22448																					
	MCC 28-2								21359											21359		21359								
									21360											21360		21360								
									21361											21361		21361								
	MCC 28/29-5							22358	22358																					
								22359	22359																					
								22360	22360																					
								22366	22366																					
									22372									22372	22372	22372					22372	22372	22372			
	MCC 28-1A-1								21362																					
	MCC 29-1								20996									20996	20996	20996		20996				20996	20996			
									21363													21363								
									21364													21364								
									21365													21365								
								24763	24763									24763	24763								24763			
	MCC 29-2							28690	28690										28690	28690										
								28691	28691										28691	28691										
								28692	28692										28692	28692										
								28693	28693										28693	28693										
	MCC 29-3								21403											21403		21403								
									21404											21404		21404								
									21405											21405		21405								
	MCC 29-4								21368													21368								
									21369													21369								
									21370													21370								
	MCC 28/29-5							22362	22362																					
								22363	22363																					
								22364	22364																					
								22367	22367																					
	[illegible]								21368													21368								

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[illegible]			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-149 REV. 0
SHEET 4 OF

ES-149

S&L ECAD FILE: QUAMIS.5

		UNIT 1																							UNIT 2																							UNIT 1 & 2					
SERVICE	EQUIP. NUMBER \ FIRE ZONE	1.1.1.1	11.1.3	[illegible]	11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
RHR SYSTEM PUMPS	2-1001-2A																													20900	20900	20900											20900	20900									
																																									20902	20902	20902	20902	20902					20902	20902	20902		
	2-1001-2B																													20906	20906	20906											20906	20906									
																																									20908	20908	20908	20908	20908					20908	20908	20908		
	2-1001-2C																																						20800	20800	20800		20800	20800	20800									
																																									20802	20802	20802	20802				20802	20802	20802			
																																									20840	20840	20840	20840						20840			
	2-1001-2D																																						20806	20806	20806		20806	20806	20806									
																																									20808	20808	20808	20808				20808	20808	20808			
RHR SYSTEM ROOM COOLERS	2-5746A																													21352	21352	21352																					
																														21353	21353	21353																					
																														21367	21367	21367																					
	2-5746B																											21485			21485	21485																					
																												21487			21487	21487																					
																												21488			21488	21488																					
RHR SERVICE WATER PUMPS	2-1001-65A														20688				20688	20688																			20688														
																																									20690	20690						20690	20690	20690			
																																									20830	20830								20830			
																																										28531											
	2-1001-65B														20694				20694	20694																			20694														
																																									20696	20696						20696	20696	20696			
	2-1001-65C																																						20800	20800	20800		20800	20800										
																																									20802	20802	20802					20802	20802	20802			
																																									20840	20840	20840							20840			
	2-1001-65D																																						20806	20806	20806		20806	20806	20806									
																																									20808	20808	20808	20808				20808	20808	20808			
RHR SERVICE WATER PUMP CUBICLE COOLERS	2-5745A																																						28509	28509	28509		28509	28509										
																																							28515	28515	28515		28515	28515										
																																							28526	28526	28526		28526	28526										
																																							28529	28529	28529		28529	28529										
																																										28531											
	2-5745B																																						28539	28539	28539		28539	28539										
																																							28541	28541	28541		28541	28541										
																																							28543	28543	28543		28543	28543										
																																							28545	28545	28545		28545	28545										
																																										28547											
	2-5745C																																						28651	28651	28651		28651	28651										
																																							28671	28671	28671		28671	28671										
																																							28672	28672	28672		28672	28672										
																																							28673	28673	28673		28673	28673										
																																										28675	28675										
																																							28676	28676	28676		28676	28676										
																															28678	28678										28678	28678		28678								
	2-5745D																																									28549	28549										
																																							28677	28677	28677		28677	28677										
																																							28679	28679	28679		28679	28679										
																																							28680	28680	28680		28680	28680										
																																							28683	28683	28683		28683	28683										
																																							28686	28686	28686		28686	28686										

APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	2-19-81				FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 4361

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-149 REV. 0
SHEET 3 OF

ES-149

S&L FORM [illegible]

UNIT 1 | UNIT 2 | UNIT 1 & 2

SERVICE	FIRE ZONE / CABLE NUMBER	1.1.1.1	1.1.1.3	1.1.2.3	1.1.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	1.1.2.1	1.1.1.4	1.1.3.1	1.1.3.2	1.1.3.3	1.1.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
RR SYSTEM VALVES	M02-1001-4A																										20204	20204	20204																				20204	20204	20204			
																											20212	20212	20212																								
																											20227	20227	20227																								
	M02-1001-4B																											20228	20228																					20228	20228			
																									20229			20229	20229																								
																									20233			20233	20233																								
	M02-1001-5A																										22502	22502	22502																								
																											22705	22705	22705																								
																													22716																					22716	22716			
																											22742	22742	22742																								
																													22953																						22953		
	M02-1001-5B																								22503			22503	22503																								
																									22706			22706																								
																												22732																								
																									22744			22744	22741																								
																													22954																						22954		
	M02-1001-7A																										22518	22518	22518																								
																											22519	22519	22519																								
																											22520	22520	22520																								
																													22521																						22521	22521	22521		
																													22522																						22522	22522	22522		
	M02-1001-7E																										22523	22523	22523																								
																											22524	22524	22524																								
																											22525	22525	22525																								
																													22526																						22526	22526	22526		
																													22527																						22527	22527	22527		
	M02-1001-7C																								22890			22890	22890																								
																									22891			22891																								
																									22892			22892																								
																													22893																						22893		
	M02-1001-7D																								22895			22895	22895																								
																									22896			22896																								
																									22897			22897																								
																													22899																						22899		
	M02-1001-7EA																										22679	22679	22679																								
																											22680	22680	22680																								
																													22681																						22681	22681			
																											22682	22682	22682																								
	M02-1001-7EB																								22960			22960	22960																								
																									22961			22961	22961																								
																													22962																						22962	22962	22962		
																									22963			22963	22963																								
	M02-1001-7EA																						22675					22675	22675																								
																							22676						22676																								
																													22677																						22677	22677			
																							22678					22678	22678																								
	M02-1001-7EB																						22956					22956	22956																								
																							22957					22957	22957																								
																													22958																						22958	22958	22958		
																							22959					22959	22959																								
	M02-1001-7E																										22657	22657	22657																								
																											22658	22658	22658																								
																													22659																						22659	22659			
																											22660	22660	22660																								
																							29503																														
																							29681																														
																							29682			29682																												

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[illegible]			50% CSED USE	

DRAWING RELEASE RECORD

REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

SCALE: NONE
PROJECT NUMBER: 6401

ROUTING OF ASSOCIATED CIRCUITS BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO: ES-149
REV: 0
SHEET 6 OF

ES-149

S&L ECAD FILE: ...DAVIS.5

UNIT 1

SERVICE	EQUIP. NUMBER \ FIRE ZONE	1.1.1.1	11.1.3	[illegible]	11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
RHR SYSTEM VALVES	MO2-1001-19B																							
	MO2-1001-23A																							
	MO2-1001-23B																							
	MO2-1001-26A																							
	MO2-1001-26B																							
	MO2-1001-28A																							
	MO2-1001-28B																							
	MO2-1001-29A																							
	MO2-1001-29B																							
	MO2-1001-34A																							
	MO2-1001-34B																							
	MO2-1001-36A																							
	MO2-1001-36B																							
	MO2-1001-37A																							

UNIT 2 / UNIT 1 & 2

EQUIP. NUMBER	U2 1.1.2.1	U2 11.1.4	U2 11.3.1	U2 11.3.2	U2 11.3.3	U2 11.3.4	U2 1.1.2.2	U2 1.1.2.3	U2 1.1.2.4	U2 1.1.2.5	U2 1.2.2	U2 6.2	U2 7.0	U2 8.2.1	U2 11.1.2	U2 8.2.2	U2 8.2.5	U2 8.2.6	U2 8.2.7	U2 8.2.8	U2 8.2.9	U2 8.2.10	U2 9.0	U1&2 2.0	U1&2 3.0	U1&2 6.3	U1&2 8.1	U1&2 9.0	REMARKS
MO2-1001-19B				22937			22937	22937																					
							22938	22938																					
											22939																		
				22940			22940	22940																					
				29052																									
				29078																									
						29079																							
MO2-1001-23A							22528	22528																					
							22529	22529																					
								22530									22530	22530	22530					22530	22530	22530			
							22531	22531																					
MO2-1001-23B								22900																					
								22901																					
								22902									22902	22902	22902						22902				
								22903																					
MO2-1001-26A							23950	2"950																					
							23951	23951																					
							23953	23953																					
								23955									23955		23955					23955	23955	23955			
MO2-1001-26B								23960																					
								22961																					
								23965									23965	23965	23965					23965	23965	23965			
								24019																					
MO2-1001-28A	22665						22665																						
	22666						22666																						
							22667										22667	22667						22667	22667				
	22668						22668																						
							20271										20271	20271								20271			
MO2-1001-28B	22945						22945																						
	22946						22946																						
							22947										22947	22947								22947			
	22948						22948																						
	20279																20279	20279								20279			
MO2-1001-29A	22661						22661																						
	22662						22662																						
							22663										22663	22663						22663	22663				
	22664						22664																						
MO2-1001-29B	22941						22941																						
	22942						22942																						
							22943										22943	22943								22943			
	22944						22944																						
MO2-1001-34A	22691						22691	22691																					
	22692						22692	22692																					
	22693						22693	22693																					
								22694									22694		22694					22694	22694				TERA APERTURE CARD
MO2-1001-34B	22964						22964	22964																					
	22965						22965																						
	22966						22966																						
								22967									22967	22967	22967						22967				
MO2-1001-36A	22533						22533	22533																					
	22534						22534	22534																					
								22535									22535	22535	22535					22535	22535	22535			
							22536	22536																					
MO2-1001-36B	22905						22905	22905																					
	22906						22906																						
								22907									22907	22907	22907						22907				
	22908						22908																						
MO2-1001-37A	22700						22700	22700																					
	22701						22701	22701																					
	22702						22702	22702																					
								22703									22703		22703					22703	22703				

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-15-81				FOR CECO USE	

SCALE NONE
PROJECT NUMBER 6401

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-149 REV. 0

SHEET 7 OF

ES-149

SERVICE	EQUIP. NUMBER / FIRE ZONE	UNIT 1																						
		1.1.1.1	11.1.3	[illegible]	11.2.2	11.2.3	11.2.4	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	6.1	7.0	8.2.1	11.1.1	8.2.3	8.2.4	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0
RHR SYSTEM VALVES	MO2-100[illegible]-17B																							
	MO2-1001-185A																							
	MO2-1001-185B																							
	MO2-1001-186A																							
	MO2-1001-186B																							
	MO2-1001-187A																							
	MO2-1001-187B																							
RCIC SYSTEM TURBINE & AUXILIARIES	PUMP & TURBINE																							
	VACUUM PUMP																							
	CONDENSATE PUMP																							
	EMERG. RM. COOLERS																							
RCIC SYSTEM VALVES	MO2-1301-16																							
	MO2-1301-17																							

SERVICE	EQUIP. NUMBER / FIRE ZONE	UNIT 2																							UNIT 1 & 2					
		1.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	1.1.2.2	1.1.2.3	1.1.2.4	1.1.2.5	1.2.2	6.2	7.0	8.2.1	11.1.2	8.2.2	8.2.5	8.2.6	8.2.7	8.2.8	8.2.9	8.2.10	9.0	2.0	3.0	6.3	8.1	9.0	REMARKS
RHR SYSTEM VALVES	MO2-100[illegible]-17B	22972						22972																						
		22973						22973																						
		22974						22974																						
									22975									22975	22975	22975						22975				
	MO2-1001-185A							20242	20242									20242	20242							20242	20242			
							20243	20243	20243																					
							20244	20244	20244																					
	MO2-1001-185B							20245	20245									20245	20245							20245	20245			
					20355			20355	20355																					
					20356			20356	20356																					
	MO2-1001-186A							20234	20234									20234	20234							20234	20234			
							20237	20237	20237																					
							20238	20238	20238																					
	MO2-1001-186B							20239	20239									20239	20239							20239	20239			
					20240			20240	20240																					
					20241			20241	20241																					
	MO2-1001-187A							20351	20351									20351	20351							20351	20351			
							20352	20352	20352																					
							20353	20353	20353																					
	MO2-1001-187B							20367										20367	20367							20367	20367			
					20368			20369	20368																					
					20369			20369	20369																					
RCIC SYSTEM TURBINE & AUXILIARIES	PUMP & TURBINE			20012														20012									20012			
																										20017	20017			
				20021														20021									20021			
		20022																20022	20022								20022			
		20023																20023	20023								20023			
	VACUUM PUMP								20004									20004	20004	20004						20004	20004			
																										20005	20005			
		20006		20006				20006	20006																					
		20007		20007				20007	20007																					
								20019	20019																					
																										25732	25732			
		76049		76049				76049	76049																					
	CONDENSATE PUMP								20000									20000	20000	20000						20000	20000			
																										20001	20001			
				20002				20002	20002									20002	20002											
				20003				20003	20003									20003	20003											
								20009	20009																					
																										25731	25731			
		76048		76048				76048	76048																					
	EMERG. RM. COOLERS							22773	22773									22773	22773								22773			
		22774				22774		22774	22774																					
		22783				22783		22783	22783																					
		22786		22786				22786	22786																					
RCIC SYSTEM VALVES	MO2-1301-16							20041																						
								20042	20042																					
								20043																						
								20044	20044																					
									20045																					
																										20046	20046			
	MO2-1301-17								20048										20048	20048										
									20049										20049	20049										
								20050	20050										20050	20050										
									20051									20051	20051	20051						20051	20051			
																										20052	20052			
				20135														20135	20135	20135						20135	20135			
								20136	20136									20136	20136								20136			
								20138	20138									20138	20138							[illegible]	20138			
																		20309	20309	20309							20309			

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD						
REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	[signature]			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6301

ROUTING OF ASSOCIATED CIRCUITS
BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY
ENGINEERS
CHICAGO

DRAWING NO. ES-149 REV. 0
SHEET 8 OF