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) 1-600	DIESEL GENERATORS (SEE NOTE 4) 2-600	INSTRUMENT RACKS 220-1, 220-2	ELECTROMATIC RELIEF VALVES 1-0203-3A THRU 1-0203-3K	MECHANICAL SAFETY VALVES AND TARGET ROCK 1-0203-4A THRU 1-0203-3A
REACTOR BUILDING - BASEMENT FLOOR EL. 554'-0"		X(DIV.III)	X	X	OR X	X	X	
REACTOR BUILDING - GROUND FLOOR EL. 595'-0"			X	X	OR X	X	X	X
REACTOR BUILDING - MEZZANINE FLOOR EL. 623'-0"		X(DIV.II)	X	X	OR X	USE INSTRUMENT RACKS 220-1,220-2 & 220-3	X	X
REACTOR BUILDING - MAIN FLOOR EL. 641'-0"	X		X	X	OR X	OR X	X	
REACTOR BUILDING - REACTOR FLOOR EL. 676'-6"	X		X	X	OR X	CONTROL ROOM	X	
REACTOR BUILDING EL. 715'-0"	X		X	X	OR X	X	X	X
TURBINE BUILDING EL. 595'-0", 623'-0", 641'-0"								
CONTROL ROOM FLOOR PLAN EL. 623'-0"	X		X	X	OR X	X OR X	X	X
CABLE ROOM FLOOR PLAN EL. 641'-0"	X		X	X	OR X	X OR X	X	X
CONTROL SAFETY PANELS ROOM EL. 615'-0"	X		X	X	OR X	X OR X	X	X
ELECTRIC EQUIPMENT AND TRANSFORMER ROOM EL. 595'-0"	X		X	X	OR X	X OR X	X	X
TURBINE PLAN EL. 595'-0"	X		X	X	OR X	X OR X	X	X
TURBINE BUILDING - BASEMENT FLOOR EL. 554'-0"	X		X	X	OR X	X OR X	X	X
TURBINE BUILDING - GROUND FLOOR EL. 595'-0"	X		X(DIV.I) SERV.WTR.PUMPS.1	X	OR X	CONTROL ROOM	X	
TURBINE BUILDING - MEZZANINE FLOOR EL. 623'-0"	X		X(DIV.I) SERV.WTR.PUMPS.1	X	OR X	CONTROL ROOM	X	
TURBINE BUILDING - MAIN FLOOR EL. 641'-0"	X		X(DIV.I) RHR SERV.WTR.)	X	OR X	X OR X	X	
TURBINE BUILDING EL. 676'-6"	X		X	X	OR X	X OR X	X	
CABLE TUNNEL		X(DIV.I)	X(DIV.I) RHR SERV.WTR.PUMPS.1	X	OR X	X OR X	X	
REACTOR BUILDING - GROUND FLOOR		X(DIV.I)	X(DIV.I) RHR SERV.WTR.PUMPS.1	X	OR X	X OR X	X	
REACTOR BUILDING - MEZZANINE FLOOR	X		X(DIV.I) UNIT 2 RHR SERV.WTR.PUMPS.1	X	OR X	X OR X	X	
REACTOR BUILDING - MAIN FLOOR	X		X(DIV.I) SERV.WTR.PUMPS.2	X	OR X	CONTROL ROOM	X	
TURBINE BUILDING	X		X	X	OR X	CONTROL ROOM	X	
345 KV SWITCHGEAR	X		X	X	OR X	CONTROL ROOM	X	
REACTOR BUILDING - FAN ROOM	X		X	X	OR X	CONTROL ROOM	X	
DIESEL GENERATOR			**	X	OR X	X OR X	X	
TURBINE BUILDING EL. 595'-0"	X		X(DIV.I) UNIT 2 RHR SERV.WTR.PUMPS.1	X	OR X	CONTROL ROOM	X	
TURBINE BUILDING - RESIDUAL HEAT REMOVAL SERVICE WATER PUMP ROOM								
DIESEL GENERATOR ROOM UNIT 1 FLOOR EL. 541'-0"	X		X	X	OR X	CONTROL ROOM	X	
TURBINE BUILDING - HPCI FLOOR EL. 554'-0"	X		X	X	OR X	CONTROL ROOM	X	
TURBINE BUILDING UNIT 1 SOUTHWEST CORNER ROOM EL. 554'-0"	X		X(DIV.I)	X	OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 SOUTHEAST CORNER ROOM EL. 554'-0"	X		X	X	OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 NORTHWEST CORNER ROOM EL. 554'-0"	X		X	X	OR X	CONTROL ROOM	X	
REACTOR BUILDING UNIT 1 NORTHEAST CORNER ROOM EL. 554'-0"	X		X(DIV.III)	X	OR X	CONTROL ROOM	X	

NOTES:

ALL EQUIPMENT DESIGNATED BY AN X ARE ALSO LISTED ABOVE/BELOW ARE NOT 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: RHR PUMPS 1-1002A, 1-1002B, 1-1002C, 1-1002D
ONE DIVISION SUFFICIENT FOR SAFE SHUTDOWN
RHR ROOM COOLERS 1-5745A, 1-5745B
RHR SERVICE WTR PUMPS 1-1001-65A, 1-1001-65B, 1-1001-65C, 1-1001-65D
RHR SERV WTR PMP. CUB COOLERS 1-5745A, 1-5745B, 1-5745C, 1-5745D

NOTE 4:
DIESEL GENERATORS INCLUDE FOLLOWING EQUIPMENT:
DG COOLING WATER PUMPS 1-3903, 1/2-3903
ONE DIESEL AND ITS AUXILIARIES SUFFICIENT FOR SAFE SHUTDOWN
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 1-5703, 1/2-5703

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

SGTS VALVES	
MO-1-1301-25	CONDENSATE STORAGE-SUCTION ISOLATION VALVE
MO-1-1301-35	SUPPRESSION POOL SUCTION ISOLATION VALVE
MO-1-1301-36	SUPPRESSION POOL SUCTION ISOLATION VALVE
MO-1-1301-48	INJECTION LINE ISOLATION VALVE
MO-1-1301-49	INJECTION LINE ISOLATION VALVE
MO-1-1301-64	STEAM SUPPLY ISOLATION VALVE
MO-1-1301-77	STEAM SUPPLY ISOLATION VALVE
MO-1-1301-61	STEAM SUPPLY SHUTOFF VALVE
MO-1-1301-60	TEST RETURN TO SUPPRESSION ISOLATION VALVE
MO-1-1301-63	TEST RETURN TO CONDENSATE ISOLATION VALVE
MO-1-1301-62	COOLING WATER SHUTOFF VALVE
RHR VALVES	
MO-1-1001-14A,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 CHECKSTOP VALVES
MO-1-1001-34A,B	RHR RETURN TO SUPPRESSION POOL ISOLATION VALVES
MO-1-1001-36A,B	RHR RETURN TO SUPPRESSION POOL ISOLATION VALVES
MO-1-1001-37A,B	RHR SPRAY ISOLATION VALVES
MO-1-1001-38A,B	RHR SPRAY ISOLATION VALVES
MO-1-1001-73A,B	RHR LPCI INJECTION ISOLATION VALVES
MO-1-1001-74A,B	RHR LPCI INJECTION ISOLATION VALVES
MO-1-1001-75A,B	RHR SHUTDOWN COOLING SUCTION ISOLATION VALVES
MO-1-1001-76A,B	RHR SHUTDOWN COOLING SUCTION ISOLATION VALVES
MO-1-1001-4A,B	RHR SW PUMP DISCHARGE ISOLATION VALVES
MO-1-1001-146A,B	RHR SW HX BYPASS ISOLATION VALVES
MO-1-1001-147A,B	RHR SW HX BYPASS ISOLATION VALVES
MO-1-1001-45A,B	RHR SW HX DISCHARGE ISOLATION VALVES
MO-1-1001-46A,B	RHR SW HX DISCHARGE ISOLATION VALVES

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

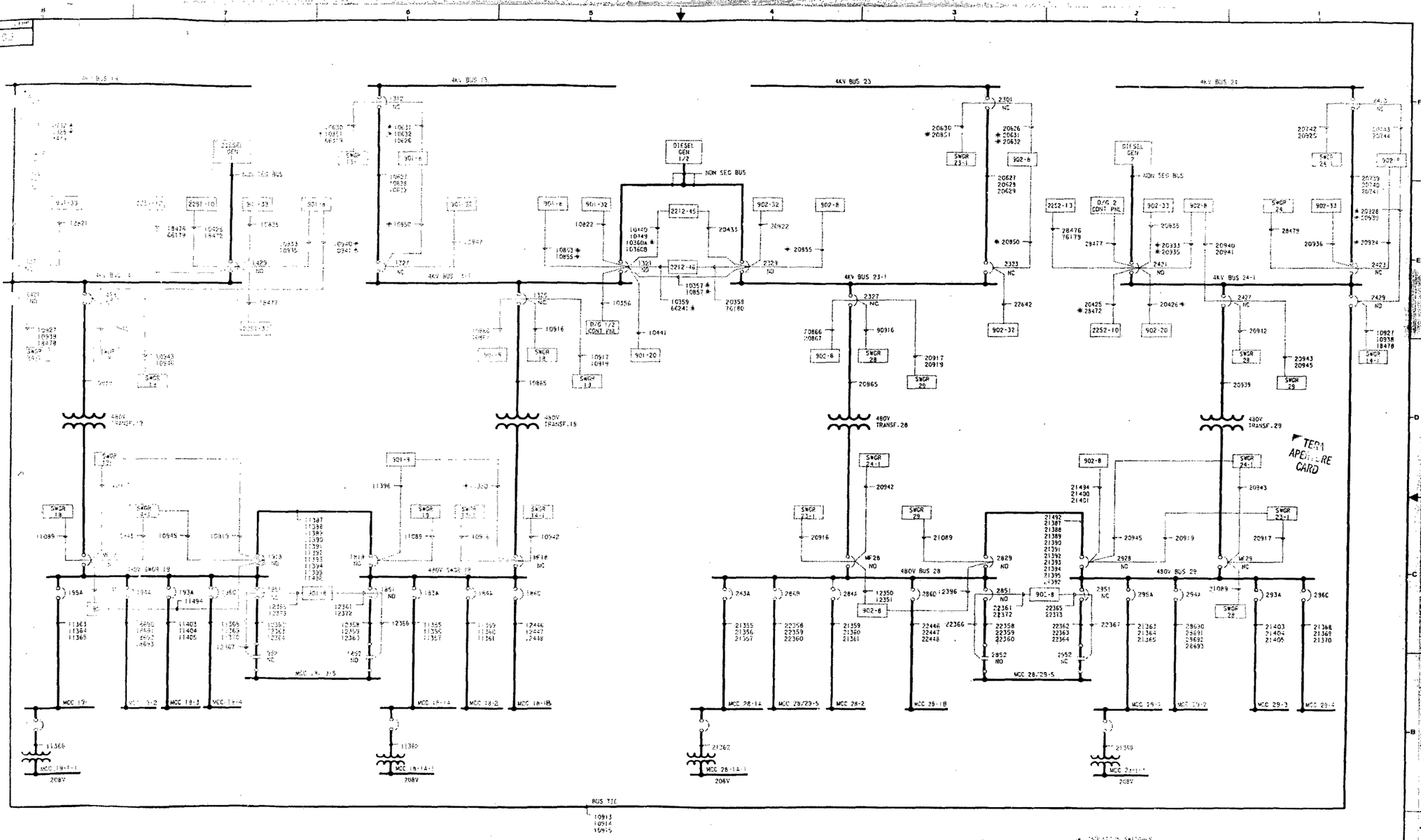
DRAWING RELEASE RECORD																							
REV	DATE	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM	REV	DATE	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
							0	8/12/81				FOR CONSTRUCTION	

SCALE: NONE
PROJECT NUMBER: 6400

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

SARGENT & LUNDY ENGINEERS CHICAGO

DRAWING NO. ES-148 REV 0
SHEET OF



NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

| DRAWING RELEASE RECORD | | |

ES-149

S&L ECAD [illegible]

SERVICE	EQUIP. NUMBER / FIRE ZONE	UNIT 1																							UNIT 2																							UNIT 1 & 2					REMARKS
		1.1.1.1	[illegible]	[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	
RCIC SYSTEM VALVES	MO2-1301-[illegible]																										20053				20053	20053									20053	20053											
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	MO2-1301-25																								20018		20019				20018	20018																					
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																																																75390	75390	75390			
	MO2-1301-26																								20016		20016				20016	20016									20016	20016											
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	MO2-1301-48																										20058				20058	20058									20058	20058											
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	MO2-1301-49																															20063										20063	20063										
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	MO2-1301-53																										20078				20078	20078									20078	20078											
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	MO2-1301-60																									20083					20083	20083									20083	20083											
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	MO2-1301-61																								20088						20088	20088									20088	20088											
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	MO2-1301-62																										20093				20093	20093									20093	20093											
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																																																	20097	20097	20097			

TERA
APERTURE
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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]			[illegible]	

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 9 OF

ES-149

SAIL ROAD FIRE CHANGES

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																					UNIT 2																									UNIT 1 & 2					REMARKS
		1.1.1.1	11.1.3	11.1.1	11.2.2	11.2.3	11.2.4	11.1.2	11.1.3	11.1.4	11.1.5	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 CONTROL & OSCILLATION																								20422																													
																								20423																													
																								20428																20428	20428	20428		20428		20428						
																								24174										24174								24174											
																								28452																28452	28452	28452				28452	28452	28452	28452			
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																								28470																													
																								28474																													
																								28476															28476	28476	28476	28476				28476						
DIESEL GENERATOR 2 AUXILIARIES	2021 ATR. PUMP																								22139											22289		22289			22289	22289		22289								
																									22290																			22290		22290						
																									22365														22365	22365	22365					22365	22365	22365			
																									22367																												
	2021 ATR. PUMP H. COOLER																																			28676		28676			28676	28676										
																																				28677		28677			28677	28677										
																									28678						28678										28678	28678										
	2021 ROOM VENT FAN																								22200																22200					22200						
																									22201																22201					22201						
	2021 OIL TRANSF. PUMP																								22202																22202					22202						
																									22203																22203					22203						
	2021 START AIR COMP.																																								22385					22385						
																																									22386					22386						
																																									22389					22389						
																																									22390					22390						
INSTRUMENT RACK 2202-5	LIS-263-59A																								25110	25110														25110	25110								25110				
																									25123	25123														25123	25123						25123	25123	25123			
	LIS-263-57A																		26312							26312																26312					26312	26312				
																			27990							27990																27990					27990	27990				
	LIS-263-72A																									20880														20880	20880	20880							20880				
																										23956A														23956A	23956A	23956A							23956A				
	LIS-263-72C																									20877														20877	20877	20877							20877				
																										23956B														23956B	23956B	23956B							23956B				
	LIS-263-57B																		26313							26313																26313					26313	26313				
																			26792							26792																26792					26792	26792				
INSTRUMENT RACK 2202-6	LIS-263-59B																								25124	25124														25124	25124						25124	25124	25124			
																									29168	29168															29168											
	LIS-263-58A																		26320							26320																26320					26320	26320				
																			27997							27997																27997					27997	27997				
	LIS-263-72B																									20966														20966	20966	20966							20966				
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	LIS-263-72D																									20963														20963	20963	20963							20963				
	LIS-263-58B																		26321							26321																26321					26321	26321				
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																			27222							27222																27222					27222	27222				
	LIS-263-72B																									20261														20261	20261	20261							20261				
																										22810														22810	22810	22810							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. Ma			FOR CECO USE	

SCALE NONE
PROJECT NUMBER 6466

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 2 OF

ES-149

SAL ECCO SYSTEM DIAGRAMS

SERVICE	EQUIPMENT NUMBER \ FIRE ZONE	UNIT 1																						UNIT 2																								UNIT 1 & 2					REMARKS
		11.1.1.1	11.1.2	11.2	11.2.2	11.2.3	11.1.4	11.1.1.2	11.1.1.3	11.1.1.4	11.1.1.5	11.2.1	6.1	7.0	3.2.1	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	
ELECTROMATIC RELIEF VALVES 2-203-3A THRU 2-203-3E	POWER CABLES																																																20221					
																																																	20222					
																														20264	20264				20264						20264	20264											
																														20281	20281				20281						20281	20281											
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	CONTROL CABLES																												20790	20790										20790	20790								20790				
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	2-203-3A																													23654																							
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	2-203-3B																													23657																							
																														23669	23669																						
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																															24840									24840	24840	24840						24840	24840	24840			
	2-203-3C																														23661																						
																														23670	23670																						
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	2-203-3D																														23662																						
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	2-203-3E																													23667	23667																						
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																														23947	23947																						
																															24849									24849	24849	24849						24849	24849	24849			

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD						
REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

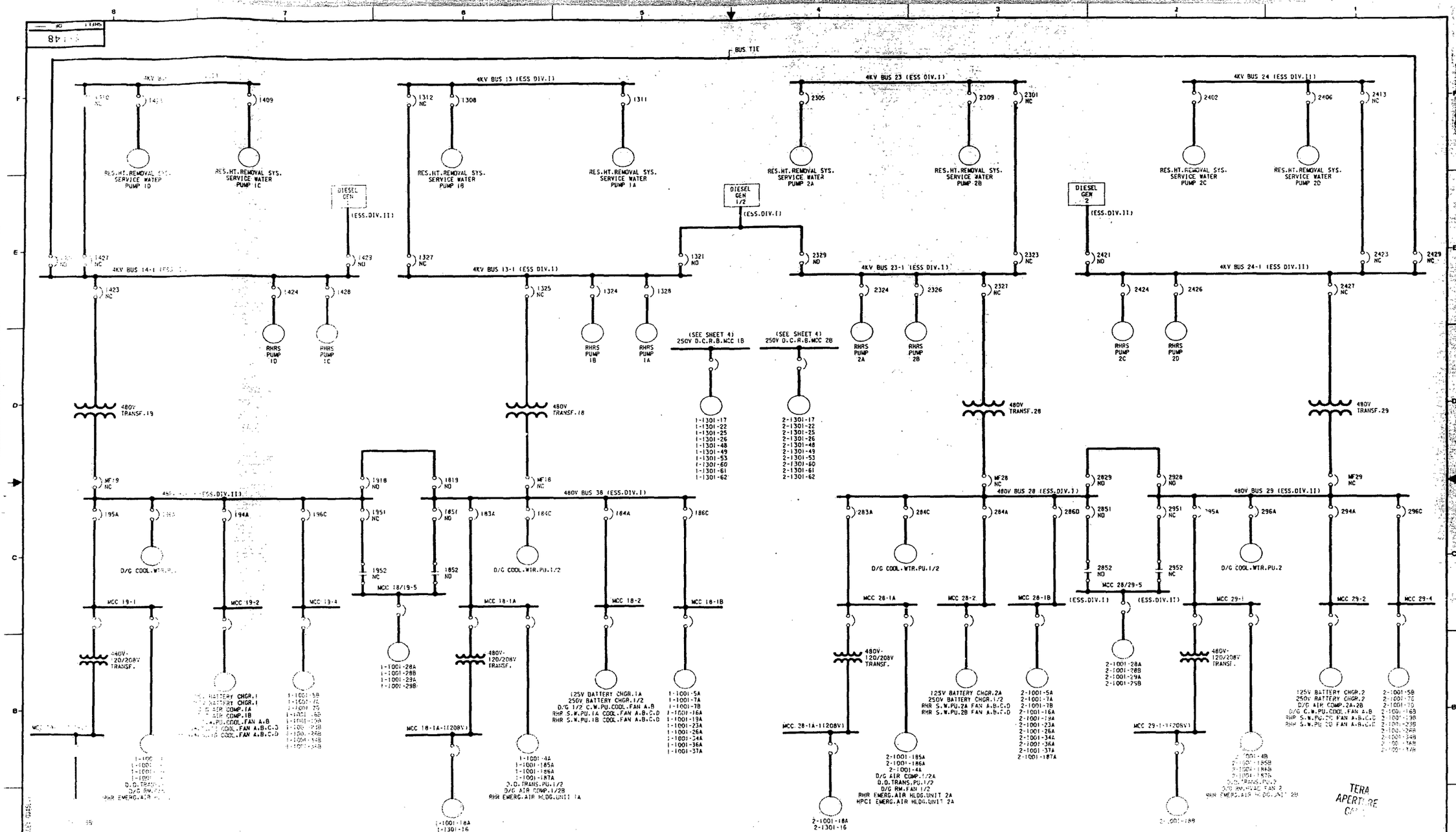
DRAWING RELEASE RECORD						
REV.	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	5-15-81	[illegible]			SAL ECCO USE	

SCALE: NONE
PROJECT NUMBER: 4401

PROJECTION OF ASSOCIATED CIRCUITS BY FIRE ZONE
QUAD CITIES NUCLEAR POWER STATION
UNITS 1 & 2
COMMONWEALTH EDISON CO.
OREGON, ILLINOIS

SARGENT & LUNDY
ENGINEERS
CHICAGO, ILLINOIS

DRAWING NO. ES-149 REV. 0
SHEET OF



NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD						
REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

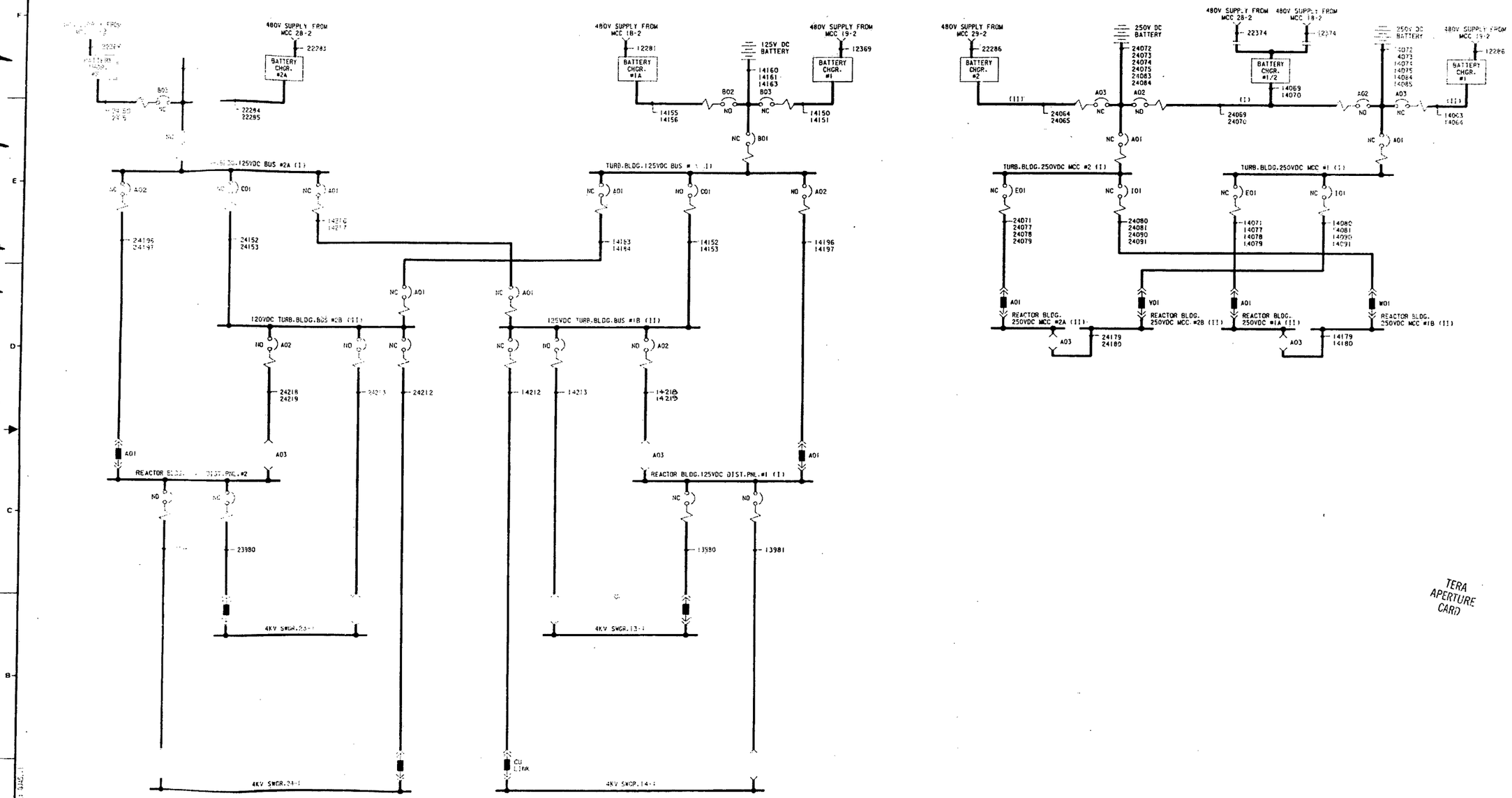
DRAWING RELEASE RECORD						
REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-19-81	D. Miller			FOR CECO USE	

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



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	8-13-81				FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: F401-60

SARGENT & LUNDY ENGINEERS

DRAWING NO: ES-148 REV: 0

ES-148

SERVICE	EQUIPMENT SERVED / SERVICE	UNIT 1																							UNIT 2																									UNIT 1 & 2					REMARKS
		11.1.1.1	11.1.3	11.1.4	11.1.5	11.2.3	11.2.4	11.1.1.2	11.1.1.3	11.1.1.4	11.1.1.5	11.2.1	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	11.1.2.1	11.1.4	11.3.1	11.3.2	11.3.3	11.3.4	11.1.2.2	11.1.2.3	11.1.2.4	11.1.2.5	11.2.2	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	3.0	
125V DC	125V DC CHGR. 1												12369 14150 14151							12369																																			
	125V DC CHGR. 1A												12281 14155 14156							12281																																			
	125V DC BUS 1A												14160 14161 14163																																										
	125V DC BUS 1B												14152 14153 14216 14217							14216 14217																14216 14217																			
125V DC	125V DC CONTROL PANEL 1								14218 14219 14196 14197				14218 14219 14196 14197					14218 14219	14218 14219	14218 14219 14196 14197																																				
	4KV SWGR. 1 DC FEED												14185 14201						14185 14201	14185 14201																																			
	4KV SWGR. 1 DC FEED								13980				14213					14212	14213	13980 14213	13980 14213																																			
	4KV SWGR. 1 DC FEED												14187 14203					14203	14203	14203																																			
	4KV SWGR. 1A-1 DC FEED								13981				14212					14212	14212	13981 14212	13981 14212																																			
	4KV SWGR. 1B DC FEED								13982 14214	13982			14214					14214	14214	14214																																				
	4KV SWGR. 1B								13983 14215	13983			14215					14215	14215	14215																																				
125V DC	BATTERY CHGR. 1									14063			12286 14064						14063	12286																													14067	14063	14063			
	BATTERY CHGR. 1A												12374 14069 14070 22374 24069 24069						22374 24069 24070	12374 22374 24069 24070												24069 24070			24069 24070				22374	22374 24069 24070	22374 24069 24070												
125V DC	125V DC MOV 1A FEED												14072 14073 14074 14075 14083 14084							14072 14073 14074 14075																																				
	125V DC MOV 1B FEED								14071 14077 14078 14079				14071 14077 14078 14079					14071 14077 14078 14079	14071 14077 14078 14079	14071 14077 14078 14079																																				
	125V DC MOV 1A FEED							24080 24081 24090 24091										24080 24081 24090 24091																									24080 24081 24090 24091	24080 24081 24090 24091												
	125V DC MOV 1B FEED								14179 14180																																														

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	8-15-81	[illegible]		AGE CEO USE		

SCALE NONE
PROJECT NUMBER 6301

PENINSULA ASSOCIATED CORPORATE
BY THE TONE
BEAVER VALLEY NUCLEAR POWER STATION
UNIT 1 & 2
COMMONWEALTH EDISON CO.
CHICAGO, ILLINOIS

SARGENT & LUNDY
ENGINEERS
CHICAGO

DRAWING NO ES-148 REV. 0
SHEET 1 OF [illegible]

ES-148

SERVICE	WIRE ZONE / WIRE NUMBER	UNIT 1																					UNIT 2																		UNIT 1 & 2					REMARKS
		1.1.1.1			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	
4160V BUS 13-1 STAND-BY DIESEL 1/2 FEED BREAKER																	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				
																		10851	10851	10851																															
																		66319	66319	66319																															
							10443	10443											10443	10443																															
																		10630	10630	10630																															
																			10821	10821																												10821	10821			
																			10850	10850																										10850	10850				
																		10851	10851	10851																															
																			10854	10854																										10854	10854				
																			10858	10858																										10858	10858				
																			12842	12842																											12842	12842			
																		66319	66319	66319																															
																	10743	10743		10743																										10743	10743	10743			
																	10744	10744		10744																										10744	10744	10744			
																	10745	10745		10745																										10745	10745	10745			
																	10925	10925	10925	10925																															
																	10426	10428	10428	10428																															
																	10742	10742	10742	10742																															
																	10924	10924	10924	10924																										10924	10924	10924			
																	10925	10925	10925	10925																															
																	10931	10931	10931	10931																										10931	10931	10931			
																	10934	10934	10934	10934																										10934	10934	10934			
																		12724	12724	12724																												12724			
					12821												12821	12821		12821																												12821			
																		18471	18471	18471																															
4160V BUS 13-1 STAND-BY DIESEL 1/2 FEED BREAKER							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																															
																			10853	10853																										10853	10853				
																			10855	10855																										10855	10855				
																			10857	10857																															
							66241	66241											66241	66241																															
							BUS	BUS											BUS	BUS																													BUS		
4160V BUS 14-1 STAND-BY DIESEL 1/2 FEED & 24-1/2 TIE BREAKER																			10927	10927																															
																	10929	10928	10928	10928																										10928	10928	10928			
																	10930	10930	10930	10930																										10930	10930	10930			
																			10938	10938																															
																			18478	18478																															
																	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																												10835			
																	18472	18472	18472	18472		18472																												
																	18476	18476	18476	18476		18476																												
																	18477	18477	18477	18477		18477																												
																	66179	66179	66179	66179		66179																												
																		BUS	BUS	BUS		BUS																												
																			10866	10866																										10866	10866				
																			10867	10867																										10867	10867				
								10916											10916	10916																															
								10917											10917	10917																															
								10919											10919	10919																															
								10865	10865																																										

TEC APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV.	DATE REQ'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV.	DATE REQ'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, ILLINOIS

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

ES-148

SERVICE	COMP. NUMBER \ TRAIN ZONE	UNIT 1																							UNIT 2																								UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.1.2	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	
480 VAC TRANSFORMERS 1A & 1B BUSES 1A & 1B MAIN BREAKERS																	10940	10940	10940																												10940	10940				
																	10941	10941	10941																												10941	10941				
								10942	10942										10942																																		
								10943	10943										10943																																		
								10945	10945										10945																																		
								10939	10939										10939																																		
								10916											10916																																		
								10942	10942										10942																																		
								11350	11350										11350																												11350	11350				
								11351	11351										11351																												11351	11351				
								11396	11396										11396																												11396	11396	11396			
								13982	13982																																											
								14214				14214					14214	14214	14214																																		
								10917											10917																																		
								10943	10943										10943																																		
																			11089		11089																																
								11400	11400								11400			11400																										11400	11400	11400			
								11401	11401								11401			11401																										11401	11401	11401			
								13983	13983																																											
								14215				14215					14215	14215	14215																																		
																			11099		11089																																
									11387																																											
									11388																																											
									11389																																											
									11390																																											
									11391																																											
									11392																																											
									11393																																											
									11394																																											
									11395																																											
									11492																																											
480 VAC MOTOR CONTROL CENTERS							11355	11355	11355																																											
							11356	11356	11356																																											
							11357	11357	11357																																											
								11359	11359										11359																																		
								11360	11360										11360																																		
								11361	11361										11361																																		
							12358	12358	12358																																											
							12359	12359	12359																																											
							12360	12360	12360																																											
								12361	12361										12361																												12361	12361				
								12372	12372								12372	12372	12372																												12372	12372	12372			
480 VAC MISC. APPLIANCES								11362																																													
								11363	11363																																											
								11364	11364																																											
								11365	11365																																											
									18690										18690																																	
									18691										18691																																	
									18692										18692																																	
									18693										18693																																	
							11403	11403	11403										11403	11403																																
							11404	11404	11404										11404	11404																																
							11405	11405	11405										11405	11405																																
								11368	11368																																											
								11369	11369																																											
								[illegible]	[illegible]																																											
									[illegible]										18678																																	
							12362	12362	12362																																											
							12363	12363	12363																																											
							12364	12364	12364																																											
							12367	12367	12367																																											
								12373	12373								12373	12373	12373																												12373	12373	12373			
								1366																																											

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD

REV	DATE	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM

DRAWING RELEASE RECORD

REV	DATE RELD	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	8-15-81	[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 1 OF

ES-148

SERVICE	FIRE ZONE / EQUIPT NUMBER	UNIT 1																						UNIT 2																						UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.1.2	1.1.1.3	1.1.1.4	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	1.1.4	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	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 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]				10986			10986											10986	10986	10986																															
																		10988	10988	10988	10988																											10988	10988	10988		
AIR FLOW 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 MOTOR 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	18672																															
																			18675																															
	[illegible]																		18549																																
															18679	18679	18679		18679	18679																															
															18680	18680	18680		18680	18680																															
															18683	18683	18683		18683	18683																															
															18686	18686	18686		18686	18686																															
RHR MISCELLANEOUS	[illegible]									12447									12446	12446																											12446	12446			
										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

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	3-19-81	[illegible]			FOR CECO USE	

SCALE NONE
PROJECT NUMBER (480)

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

SARGENT & LUNDY
ENGINEERS
CHICAGO

DRAWING NO ES-148 REV 0
SHEET 8 OF

ES-148

SAL FILE: RIAMIS.5

SERVICE	FIRE ZONE / CIRCUIT NUMBER	UNIT 1																									UNIT 2																									UNIT 1 & 2					REMARKS
		1.1.1.1	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	1.1.4	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	
	MOV-1001-4A		10204	10204											10204																													10204	10204				
		10212	10212	10212																																												
		10227	10227	10227																																												
	MOV-1001-45		10228										10228	10228																													10228	10228	10228			
			10229																																													
		10233	10233	10233																																												
	MOV-1001-5A																																										10875	10875	10875			
		12502	12502																																													
		12705	12705	12705																																												
				12716											12716																												12716	12716				
				12953											12953																														12953			
	MOV-1001-5B																																										10960	10960	10960			
		12503	12503																																													
			12706	12706																																													
				12732									12732	12732	12732																												12732	12732	12732			
				12954											12954																														12954			
	MOV-1001-7A																																																
		10273	10273																																														
			12519																																														
		12520	12520																																														
		12521	12521	12521										12521	12521																												12521	12521				
			12522	12522										12522	12522																												12522	12522				
	MOV-1001-7B														10292																												10292	10292				
		10293	10293	10293																																												
		12524	12524																																													
		12525	12525											12525	12525																																	
			12526	12526																																							12526	12526				
			12527	12527										12527	12527																												12527	12527				
	MOV-1001-7C																																															
			12891	12891																																												
			12892	12892																																												
			12893	12893										12893																													12893	12893				
			12950	12950																																												
	MOV-1001-7D		12896	12896																																												
			12897	12897																																												
			12898	12898										12898																													12898	12898				
			13957	13957																																												
	MOV-1001-16A	12680	12680	12680																																												
			12681	12681											12681																												12681	12681				
		12682	12682	12682																																												
																																										12725	12725	12725			
	MOV-1001-16B		12961	12961																																												
				12962									12962	12962	12962																												12962	12962				
		12963	12963																																													
																																										12969	12969	12969			
	MOV-1001-18A																																										12674	12674	12674			
		12676	12676	12676																																												
			12677	12677											12677																												12677	12677				
		12678	12678	12678																																												
																																										12726	12726	12726			
	MOV-1001-18B																																										12955	12955	12955			
		12957	12957	12957																																												
				12958									12958	12958	12958																												12958	12958				
		12959	12959	12959																																							12984	12984	12984			
	[illegible]																																															
		12658	12658	12658																																												
			12659	12659											12659																												12659	12659				
		12660	12660	12660																																												
	[illegible]-19B		12938	12938																																												
				12939									12939	12939																													12939	12939	12939			
			12940																																													

RHR 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
0	6-15-81	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 3 OF

ES-148

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																						UNIT 2																								UNIT 1 & 2					REMARKS
		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	
	MOV-1001-23A							12529	12529																																												
								12530	12530										12530	12530																												12530	12530				
								12531	12531																																											
								12532	12532																																						12532	12532	12532			
	MOV-1001-23B								12901																																												
									12902									12902	12902	12902																											12902	12902				
									12903																																											
		12904						12904	12904																																						12904	12904	12904			
	MOV-1001-26A							13951	13951																																												
								13953	13953																																						13952	13952	13952			
									13955											13955																											13955	13955				
	MOV-1001-26B																	10419	10419																															10419			
									13961																																											
									13965									13965	13965	13965																											13962	13962	13962			
																																															13965	13965	13965			
	MOV-1001-28A																																																10200	10200			
								10271	10271											10271																													10271			
		12662						12662																																													
		12666						12666																																													
								12667	12667											12667																											12667	12667				
		12668						12668																																													
	MOV-1001-28B							10279	10279									10279	10279																															10279			
								10280																																												
		12942						12942																																													
		12946						12946																																													
								12947										12947	12947																												12947	12947	12947			
		12948						12948																																													
	MOV-1001-29A	12662						12662																																													
								12663	12663											12663																											12663	12663				
		12664						12664																																													
		12666						12666																																													
																																															12670	12670	12670			
	MOV-1001-29B																																															12672	12672	12672			
		12942						12942																																													
								12943										12943	12943																												12943	12943	12943			
		12944						12944																																													
		12946						12946																																													
	MOV-1001-34A	12692						12692	12692																																												
		12693						12693	12693																																												
								12694	12694											12694																											12694	12694				
																																														12695	12695	12695			
	MOV-1001-34B	12965						12965	12965																																												
		12966						12966	12966																																												
									12967									12967	12967																												12967	12967	12967			
																																														12968	12968	12968			
	MOV-1001-36A	12534						12534	12534																																												
								12535	12535																																												
		12536						12536	12536																																												
																																														12537	12537	12537			
	MOV-1001-36B								12906																																												
									12907									12907	12907	12907																											12907	12907	12907			
		12908						12908	12908																																						12909	12909	12909			
	MOV-1001-37A	12701						12701	12701																																												
		12702						12702	12702																																												
									12703											12703																											12703	12703				
																																														12952	13952	13952			

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	8-19-81	[illegible]			FOR CCCO USE	

SCALE: NONE
PROJECT NUMBER: 640

SARGENT & LUNDY
ENGINEERS

DRAWING NO. ES-148
SHEET 01

SERVICE	EQUIPMENT NUMBER / FIRE ZONE	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 1-1001-37B	12973						12973	12973															
		12974																						
									12975									12975	12975	12975				
	MO 1-1001-185A							10242	10242											10242				
							10243	10243	10243															
							10244	10244	10244															
	MO 1-1001-185B							10245	10245									10245	10245					
							10246	10246	10246															
							10247	10247	10247															
	MO 1-1001-186A				10234				10234											10234				
							10237	10237	10237															
							10238	10238	10238															
	MO 1-1001-186B							10239	10239															
							10240	10240	10240															
							10241	10241	10241															
	MO 1-1001-187A						10351	10351	10351											10351				
								10352																
	MO 1-1001-187B							10367										10367	10367					
					10368			10368	10368															
					10369			10369	10369															
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP					10012		10012										10012						
								10021										10021						
								10022											10022	10022				
								10023											10023	10023				
	VACUUM PUMP								10004									10004						
		10006				10006		10006																
						10007		10007																
		10011																10011	10011					
								10019																
						66249		66249	66249															
	CONDENSATE PUMP								10000									10000	10000	10000				
		10002				10002		10002																
						10003		10003																
								10009																
		66248					66248	66248																
	EMERGENCY RM. COOLERS							12773	12773									12773	12773					
		12774				12774		12774	12774															
		12783				12783		12793	12783															
		12785				12785		12785	12785															
RCIC SYSTEM VALVES	MO 1-1301-16							10041																
								10042																
								10043																
								10044																
								10045	10045											10045				
	MO 1-1301-17							10048	10048											10048				
								10049	10049											10049				
								10050										10050						
								10051										10051						
								10136										10136						
								10139	10139															
								10309	10309									10309						

SERVICE	EQUIPMENT 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
RCIC SYSTEM TURBINE & AUXILIARIES	VACUUM PUMP								10011															

SERVICE	EQUIPMENT NUMBER	UNIT 1 & 2: 2.0	3.0	6.3	8.1	9.0	REMARKS
RHR VALVES	MO 1-1001-37B	12975	12975				
		13967	13967	13967			
	MO 1-1001-185A	10242	10242				
	MO 1-1001-185B	10245	10245				
	MO 1-1001-186A	10234	10234				
	MO 1-1001-186B	10239	10239	10239			
	MO 1-1001-187A	10351	10351				
		10353	10353	10353			
	MO 1-1001-187B	10367	10367	10367			
RCIC SYSTEM TURBINE & AUXILIARIES	TURBINE & PUMP			10012			
		10017	10017	10017			
				10021			
			10022	10022			
		10023	10023	10023			
		10475	10475	10475			
	VACUUM PUMP	10004	10004				
		10005	10005	10005			
				10011			
				15732			
	CONDENSATE PUMP	10000	10000				
		10001	10001	10001			
				15731			
	EMERGENCY RM. COOLERS			12773			
RCIC SYSTEM VALVES	MO 1-1301-16	10045	10045				
		10046	10046	10046			
	MO 1-1301-17		10050				
				10051			
		10052	10052	10052			
		10135	10135	10135			
				10136			
				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

ES-148

SHEET 12 OF

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																							UNIT 2																							UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.3		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	1.1.2.6	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	
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	10059				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		10080																																													
																																															10081	10081	10081			
		10098				10098		10098																																													
		10099				10099		10099																																													
	MO1-1301-60	10083				10083		10083																																													
									10084																																						10084	10084	10084			
		10085				10085		10085																																													
																																															10086	10086	10086			
								10087										10087																															10087			
		10127				10127		10127	10127																																											
		10128				10128		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

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

UNIT 1

SERVICE	EQUIP. NUMBER	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
DIESEL GENERATOR 1 CONTROL & EXCITATION																								10422
																								10423
																		10428	10428	10428				
													14174					14174	14174					
																		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				
	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								10443	10443											10443				
								10448												10448				
DIESEL GENERATOR 1/2 AUXILIARIES	COOL WATER PUMP															12383								
									12394	12394					12394		12394		12394	12394				
								12395	12395	12395														
							12396			12396														
																22394								
	COOL WATER PUMP CUB. COOLER														18533	18533	18533		18533	18533				
															18535	18535	18535		18535	18535				
									18536	18536										18536				
									18537	18537										18537				
	D/G RM. VENT FAN							13105	13105															
								13106																
								13107	13107															

UNIT 2

SERVICE	EQUIP. NUMBER	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 1/2 AUXILIARIES	COOL WATER PUMP								22394									22394	22394	22394		22394		
	COOL WATER PUMP CUB. COOLER									18537														
	D/G RM. VENT FAN							23105																
								23107																

UNIT 1 & 2

SERVICE	EQUIP. NUMBER	2.0	3.0	6.3	8.1	9.0	REMARKS
DIESEL GENERATOR 1 CONTROL & EXCITATION		18452	18452	18452			
DIESEL GENERATOR 1 AUXILIARIES	COOL WATER PUMP	12365	12365				
DIESEL GENERATOR 1/2 CONTROL & EXCITATION						10433	
						10437	
						10438	
						10443	
		1044[illegible]	10448			10448	
						20436	
						20437	
						20438	
						20441	
						20443	
						20444	
						20446	
						20447	
						20448	
						20449	
DIESEL GENERATOR 1/2 AUXILIARIES	COOL WATER PUMP					12395	
	D/G RM. VENT FAN					13105	

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. [illegible]			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 640[illegible]

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

S&L ECAD

SERVICE	FIRE ZONE / CABLE NUMBER	UNIT 1																					UNIT 2																									UNIT 1 & 2					REMARKS
		1.1.1.1				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	
CONT'D FROM SH. 13	ELECT. TRANSF. PUMP							12711	12711																																												
								12712	12712																																												
								22711																							22711	22711																				22711	
								22712																							22712	22712																				22712	
	DIESEL STAND. APP. DMPR.							12979	12979																																												
								12980	12980																																												
								22979											22979					22979							22979	22979																						
								22980											22980												22980	22980																						
INSTRUMENT RACK 2201-5	LITS-263-59A								15110										15110	15110																												15110	15110				
	LIS-263-57A								15312											16312																												16312	16312				
									17990											17990																												17990	17990				
	LIS-263-72A								13956										13956	13956																															13956			
									10880										10880	10880																														10880			
	LIS-263-72C								10877										10877	10877																															10877			
	LIS-263-57B								16313											16313																												16313	16313				
									16792											16792																												16792	16792				
INSTRUMENT RACK 2201-6	LITS-263-59B							15124	15124										15124	15124																												15124	15124				
	LIS-263-58A								16320											16320																												16320	16320				
									17997											17997																												17997	17997				
	LIS-263-72B								10133									10133	10133	10133																															10133			
									13966									13966	13966	13966																															13966			
	LIS-263-72D								10963									10963	10963	10963																															10963			
									10966									10966	10966	10966																															10966			
	PI 263-52B								10261									10261	10261	10261																															10261			
									12810									12810	12810	12810																															12810			
	LIS-263-58B								16321											16321																												16321	16321				
									16789											16789																												16789	16789				

TCA 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	5-15-81	R. Mitra			FOR CECO USE	

SCALE: NONE
PROJECT NUMBER: 6201

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

SAL ECAD FILE: GRAMS5.4

ELECTROMATIC RELIEF VALVES 1-203-3A THRU 1-203-3E

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																									UNIT 2																									UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.1.3		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	
PWR. CABLES																																																										
									10272																																																
									10275																																																
													12951							12951																																					
													12952																																											
													13927																																											
CONTROL CABLES																																																										
								10790	10790											10790																																						
								10791	10791											10791																																						
									10792								10792	10792																																								
									10793								10793	10793																																								
		10797						10797	10797								10797	10797																																							
		10798						10798									10798	10798																																							
						10823		10823	10823									10823		10823																																						
					10824			10824									10824	10824																																							
									10877									10877		10877																																						
									10880									10880		10880																																						
		12812				12812		12812	12812											12812																																						
		12819				12819		12819									12819	12819																																							
						13183																																																			
									13916								13916	13916		13916																																						
									13934																																																
									15050											15050																																						
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

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

PRINTING 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 1

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	DIESEL GENERATORS (SEE NOTE 4) 1/2-6601	INSTRUMENT RACKS 2202-5	INSTRUMENT RACKS 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 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 2202-1,2202-4 & 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.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	
CLEAN & DIRTY OIL ROOM FLOOR EL.591'-0"	X		X	X OR	X	CONTROL ROOM		X	
TURBINE BUILDING - BASEMENT FLOOR FLOOR EL.547'-0"	X		X(USE UNIT 1 RHR SERV.WTR.PU'S.)	X OR	X	CONTROL ROOM		X	
TURBINE BUILDING FLOOR PLAN EL.572'-6" COLUMN C-E/ROW 4-9	X		X(DIV.II RHR SERV.WTR.)	X OR	X	X OR	X	X	
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.626'-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: RHR PUMPS 2-1002A, 2-1002B, 2-1002C, 2-1002D
(ONE DIVISION SUFFICIENT FOR SAFE SHUTDOWN)
RHR ROOM COOLERS: 2-5746A, 2-5746B
RHR SERVICE WATER PUMPS: 2-1001-65A, 2-1001-65B, 2-1001-65C, 2-1001-65D
RHR SERV WTR PMP CUB COOLERS: 2-5745A, 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 CLG 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
MO2-1301-53	TEST RETURN TO COND.STORAGE 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
MO2-1001-68A & 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
MO2-1001-28A & 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
MO2-1001-4A & 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
MO2-1001-5A & 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
0	8-19-81				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

ES-149

UNIT 1

SYSTEM	CABLE NUMBER / FIRE ZONE	1.1.1.1	[illegible]	[illegible]	[illegible]	11.2.3	11.2.4	11.1.2	11.1.3	11.1.4	11.1.5	[illegible].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 DC DISTRIBUTION	BATT.CHGR.2																							
125V DC DISTRIBUTION	BATT.CHGR.2A																							
125V DC DISTRIBUTION	[illegible] 125V DC BUS 2A FEED																							
125V DC DISTRIBUTION	[illegible] 125V DC BUS 2B FEED												14183 14184					14183 14184	14183 14184	14183 14184				
125V DC DISTRIBUTION	PB 125V DC DIST.PNL.2 FEED																							
125V DC DISTRIBUTION	4KV SWGR 23 DC FEED																							
125V DC DISTRIBUTION	4KV SWGR 23-1 DC FEED																							
125V DC DISTRIBUTION	4KV SWGR 24 DC FEED																							
125V DC DISTRIBUTION	4KV SWGR 24-1 DC FEED																							
125V DC DISTRIBUTION	480V SWGR 28 DC FEED																							
125V DC DISTRIBUTION	480V SWGR 29 DC FEED																							
250V DC DISTRIBUTION	BATT.CHGR.2																							
250V DC DISTRIBUTION	[illegible] 250V DC MCC 2 FEED																							
250V DC DISTRIBUTION	[illegible] 250V DC MCC 2A FEED																							
250V DC DISTRIBUTION	[illegible] 250V DC MCC 2B FEED												14080 14081 14090 1409[illegible]											
250V DC DISTRIBUTION	[illegible] 250V DC MCC 2A & 2B [illegible] TIE																							

UNIT 2

CABLE 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
BATT.CHGR.2												22369 24150 24151							22369				
BATT.CHGR.2A												22283 22284 22285							22283				
[illegible] 125V DC BUS 2A FEED												24160 24161	24160 24161	24163									
[illegible] 125V DC BUS 2B FEED												24152 24153											
PB 125V DC DIST.PNL.2 FEED							24218 24219	24196 24197				24196 24197 24218 24219						24218 24219	24196 24197 24218 24219				
4KV SWGR 23 DC FEED												24201 24185						24201 24185	24201 24185				
4KV SWGR 23-1 DC FEED								23980				24213							24213 23980	24213 23980			
4KV SWGR 24 DC FEED												24203 24187						24203 24187	24203 24187				
4KV SWGR 24-1 DC FEED								23981				24212							23981 24212	23981 24212			
480V SWGR 28 DC FEED								23982 24214	23982			24214							24214				
480V SWGR 29 DC FEED								23983 24215				24215							23983 24215				
BATT.CHGR.2												22286 24064 24065							22286 24064 24065				
[illegible] 250V DC MCC 2 FEED												24072 24073 24074 24075	24072 24073 24074 24083 24084						24072 24073 24074				
[illegible] 250V DC MCC 2A FEED								24071 24077 24078 24079				24071 24077 24078 24079							24071 24077 24078 24079				
[illegible] 250V DC MCC 2B FEED								14080 14081 14090 14091				14080 14081 14090 14091					14080 14081 14090 14091	14080 14081 14090 14091	14080 14081 14090 14091				
[illegible] 250V DC MCC 2A & 2B [illegible] TIE							24179 24180																

UNIT 1 & 2

CABLE NUMBER / FIRE ZONE	2.0	3.0	6.3	8.1	9.0	REMARKS
BATT.CHGR.2						
BATT.CHGR.2A						
[illegible] 125V DC BUS 2A FEED						
[illegible] 125V DC BUS 2B FEED						
PB 125V DC DIST.PNL.2 FEED						
4KV SWGR 23 DC FEED						
4KV SWGR 23-1 DC FEED						
4KV SWGR 24 DC FEED						
4KV SWGR 24-1 DC FEED						
480V SWGR 28 DC FEED						
480V SWGR 29 DC FEED						
BATT.CHGR.2						
[illegible] 250V DC MCC 2 FEED						
[illegible] 250V DC MCC 2A FEED						
[illegible] 250V DC MCC 2B FEED						
[illegible] 250V DC MCC 2A & 2B [illegible] TIE						

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	6-19-81	[illegible] Miller			FOR CECO USE	

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

SCALE: NONE

SARGENT & LUNDY ENGINEERS

DRAWING NO. ES-149 REV. 0

SHEET 2

ES-149

SERVICE	BREAKER NUMBER	UNIT 1																							UNIT 2																							UNIT 1 & 2					
	FIRE ZONE	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	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.[illegible]	9.0	REMARKS
4160V BUSES 23-1 & 24-1 MAIN FEED BREAKERS	[illegible]																																								20626	20626						20626	20626	20626			
																																									20630	20630	20630										
																																									20631	20631						20631	20631	20631			
																																									20632	20632						20632	20632	20632			
																																									20851	20851	20851										
	[illegible]																																								20627	20627	20627										
																																									20628	20628	20628										
																																									20629	20629	20629										
																																									20630	20630	20630										
																																									20821	20821	20821	20821						20821			
																																									20850	20850	20850	20850				20850	20850	20850			
																																									20851	20851	20851										
																																									20858	20858	20858	20858				20858	20858	20858			
																																									22842	22842	22842	22842						22842			
	152-2413																																								20742	20742	20742										
																																									20743	20743	20743					20743	20743	20743			
																																									20744	20744	20744					20744	20744	20744			
																																									20745	20745	20745					20745	20745	20745			
																																									20925	20925	20925										
	152-2423														20739																										20739	20739	20739										
															20740																										20740	20740	20740										
																																									20741	20741	20741										
																																									20742	20742	20742										
																																									20923	20923	20923	20923						20923			
																																									20924	20924	20924	20924				20924	20924	20924			
																																									20925	20925	20925										
																																									20936	20936	20936	20936				20936	20936	20936			
																																									22724	22724	22724	22724						22724			
																																										28479	28479										
4160V BUS 23-1 STANDBY DIESEL 1/2 FEED BREAKER	152-2329																		10357																																	
																			10857																																	
																															20359	20359											20359	20359									
																															20433	20433											20433		20433								
																																									20822	20822	20822	20822						20822			
																																									20855	20855	20855	20855				20855	20855	20855			
																															76180	76180											76180		76180							76180	
	NON-SEG.BUS							BUS	BUS																							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				20426	20426	20426			
																																									20835	20835	20835	20835						20835			
																																									20933	20933	20933	20933				20933	20933	20933			
																																									20935	20935	20935	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																						10913		10913								
																			10914		10914																						10914		10914								
																			10915		10915																						10915		10915								
																			10927		10927																						10927		10927								
																			10938		10938																						10938		10938								
																			19478		18478																						18478		18478								
																																									20928	20928	20928	20928				20928	20928	20928			
																																									20930	20930	20930	20930				20930	20930	20930			
480V TRANSFORMERS 28 & 29 [illegible] MAIN BREAKER	[illegible]																															20865											20865	20865	20865								
																																									20866	20866	20866	20866	20866			20866	20866	20866			
																																									20867	20867	20867	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				20940	20940	20940			
																																									20941	20941	20941	20941				20941	20941	20941			
																																20942											20942	20942	20942								
																																20943											20943	20943	20943								
																																20945											20945	20945	20945								

TEST APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING

DRAWING RELEASE RECORD

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

SCALE NONE
PROJECT NUMBER [illegible]

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

ES-149

SAL ROAD FILTE GRAMS.5

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																						UNIT 2																						UNIT 1 & 2					REMARKS
		11.1.1.1	11.1.2		11.2.2	11.2.3	11.2.4	11.1.1.2	11.1.1.3	11.1.1.4	11.1.1.5	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	11.1.2.2	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	
480V TRANSFORMERS 28 & 29 BUSES 29 & 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																																									20945	20945	20945							
	252-2928																																											21089								
																																												21387								
																																												21388								
																																												21389								
																																												21390								
																																												21391								
																																												21392								
																																												21393								
																																												21394								
																																												21395								
																																21396								21396	21396	21396		21396			21396	21396	21396			
																																												21492								
	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			
480V MISC. AUXILIARIES	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																				
	MCC 4-1																															21368												21368							

TERA APERTURE CARD

NUCLEAR SAFETY RELATED
EQUIPMENT IS SHOWN ON THIS DRAWING.

DRAWING RELEASE RECORD						
REV	DATE RELD.	PREPARED	REVIEWED	APPROVED	PURPOSE	FILM
0	5-19-81	[illegible]			FOR CSCO USE	

SCALE: NONE
PROJECT NUMBER: 6464

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

SAL FCAD FILE: DUAMIS.S

SERVICE	COMPONENT NUMBER \ FIRE ZONE	UNIT 1																						UNIT 2																								UNIT 1 & 2					REMARKS
		11.1.1.1	11.1.3	11.2.1	11.2.2	11.2.3	11.2.4	11.1.1.2	11.1.1.3	11.1.1.4	11.1.1.5	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	11.1.2.1	11.1.1.4	11.3.1	11.3.2	11.3.3	11.3.4	11.1.2.2	11.1.2.3	11.1.2.4	11.1.2.5	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 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 MOTOR 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			
AHR SERVICE WATER PUMP COOLING COILS	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	29675										
																																					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										

TER
APERT
CAR

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	12-18-81				FOR CLCO USE	

SCALE NONE
PROJECT NUMBER 4586

PUBLISHER OF ASSOCIATED CIRCUITS
BY FOR JOBS
QUAD CITIES NUCLEAR POWER STATION
UNITS 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 2127 (REVISED 5)

SERVICE	FIRE ZONE / EQUIPMENT NUMBER	UNIT 1																									UNIT 2																									UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.1.2	1.1.1.3	1.1.1.4	1.1.1.5	1.2.1	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	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	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	8.1	9.0	
	[illegible]																															20204	20204										20204	20204							20204	20204	20204			
																															20212	20212	20212																						
																															20227	20227	20227																						
	[illegible]																															20228	20228										20228	20228								20228	20228		
																													20229			20229	20229																						
																													20233			20233	20233																						
	[illegible]																														22502	22502	22502																						
																															22705	22705	22705																						
																																	22716										22716		22716						22716	22716			
																															22742	22742	22742																						
																																	22953										22953		22953								22953		
	[illegible]																													22503			22503	22503																						
																														22706			22706																						
																														22732			22732										22732	22732							22732	22732	22732		
																														22744			22744	22744																						
																																	22954										22954	22954									22954		
	[illegible]																														22518	22518	22518																						
																															22519	22519	22519																						
																															22520	22520	22520																						
																																	22521										22521	22521	22521						22521	22521	22521		
																																	22522										22522	22522	22522						22522	22522	22522		
	[illegible]																														22523	22523	22523																						
																															22524	22524	22524																						
																															22525	22525	22525																						
																																	22526										22526	22526	22526						22526	22526	22526		
																																	22527										22527	22527	22527						22527	22527	22527		
RHR SYSTEM VALVES	[illegible]																													22890			22890	22890																						
																														22891			22891																						
																														22892			22892																						
																																	22893										22893	22893	22893							22893			
	[illegible]																													22895			22895	22895																						
																														22896			22896																						
																														22897			22897																						
																																	22899										22899	22899	22899							22899			
	[illegible]																														22679	22679	22679																						
																															22680	22680	22680																						
																																	22681										22681		22681						22681	22681			
																															22682	22682	22682																						
	[illegible]																												22960			22960	22960																						
																													22961			22961	22961																						
																																	22962										22962	22962	22962						22962	22962	22962		
																													22963			22963	22963																						
	[illegible]																	22675			22675	22675																																	
																		22676			22676	22676																																	
																						22677																					22677		22677						22677	22677			
																		22678				22678	22678																																	
	[illegible]																	22956			22956	22956																																	
																		22957			22957	22957																																	
																						22958																					22958	22958	22958						22958	22958	22958		
																		22959				22959	22959																																	
	[illegible]																					22657	22657	22657																																
																						22658	22658	22658																																
																								22659																			22659		22659						22659	22659			
																						22660	22660	22660																																
																		29503																																						
																		29081																																						
																		29082												29082																										

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	8-19-81	[illegible]			FOR CASCO USE	

SCALE: NONE
PROJECT NUMBER: 6401

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

SARGENT & LUNDY ENGINEERS CHICAGO

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

ES-149

SAL ECAR 11 ... 20AH15.5

SERVICE	EQUIPMENT NUMBER \ FIRE ZONE	UNIT 1																						UNIT 2																								UNIT 1 & 2					REMARKS
		1.1.1.1	1.1.1.3	1.1.1.5	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	1.1.1.4	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	11.1.1.2	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 SYSTEM VALVES	MO2-1001-29B																										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	23950																						
																														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				
	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				

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	[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 1 OF 1

ES-149

SERVICE	EQUIP. NUMBER \ FIRE ZONE	UNIT 1																						UNIT 2																						UNIT 1 & 2					REMARKS
		1.-1.1	1.-1.2	1.-1.2	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	
RHR SYSTEM VALVES	MO2-1001-179																								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			
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ROIC SYSTEM TURBINE & AUXILIARIES	PUMP & TURBINE																										20012													20012									20012		
																											20017																					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		76049				76048	76048																				
	EMERG. RM. CHILLERS																														22773	22773								22773	22773								22773			
																									22774			22774			22774	22774																				
																									22783			22783			22783	22783																				
																									22786		22786				22786	22786																				
ROIC SYSTEM VALVES	[illegible]																														20041																					
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																																															20046	20046			
	[illegible]																															20048									20048	20048										
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																															20050	20050									20050	20050										
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																															20138																				
																															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

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