

GPU Nuclear Corporation

Post Office Box 388
Route 9 South
Forked River, New Jersey 08731-0388
609 971-4000
Writer's Direct Dial Number:

March 15, 1985

Mr. John A. Zwolinski, Chief
Operating Reactors Branch No. 5
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Zwolinski:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Environmental Qualification of Certain
Electrical Components Important to Safety

This letter documents our March 8, 1985 telephone conversation with Mr. J. Donohew, NRC Project Manager for Oyster Creek, concerning the staff's questions raised during our recent discussion (February 28, 1985) on certain Justifications for Continued Operation (JCO-OC-85-2, 4, 24 and 43) which were transmitted by GPUN letter dated February 22, 1985.

In the discussion, the NRC staff stated that the four JCOs listed above required revision and requested GPUN to modify the JCOs or qualify equipment within 10 days (by March 10, 1985). Our re-evaluation of the JCOs has resulted in the following hardware modifications which have been completed.

1. The unqualified components in motor operated valves V-21-5, 11, 13, 15, 17, and 18 in the Containment Spray System which are discussed in JCO-OC-85-2 and 4 have been replaced with qualified components.
2. All of the key lock control switches discussed in JCO-OC-85-24 and 43 have been disconnected. This action (disconnecting the key lock control switches) results in operator inconvenience, however, it will neither affect safety system operation to bring the plant to a safe shutdown condition nor the mitigation of any of the design basis accidents. Qualified key lock switches will be installed at a later date to facilitate operator convenience.

Based on these modifications, it is concluded that JCO-OC-85-2, 4, 24 and 43 are no longer needed and are therefore rescinded by this letter. Enclosed are revised Attachments I and II to our letter of February 22, 1985 to reflect these changes.

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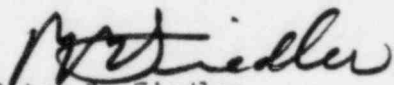
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Please note that an additional change has been made to Attachment I. Previously, it was reported that DC-2 Motor Control Center (MCC) was expected to be qualified by analysis before March 31, 1985. However, in the process of preparing the qualification documentation, we have recently concluded that a schedular extension for this item is required. The JCO, (JCO-OC-85-21), for this component has been revised and is attached.

It was also reported in Attachment I that additional time was required to establish qualification status or to specify replacement parts (Note 6) of limit switches for motor operated valves V-1-110 and V-1-111 in the Main Steam System. A recent plant walkdown established qualification status of the limit switches and specified replacement parts. Therefore, Note 6 of Attachment I has been deleted and the current status of the limit switches are provided in Attachment I.

Should you have any question, please contact M. Laggart - Manager, BWR Licensing (201) 299-2341.

Very truly yours,


Peter B. Fiedler
Vice President and Director
Oyster Creek

PBF/dam
PBF/dh/rj
#0927A

cc: Dr. Thomas E. Murley, Administrator
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

NRC Resident Inspector
Oyster Creek Nuclear Generating Station
Forked River, NJ 08731

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Emergency Condenser System</u>									
IB05-A1	Differential Pressure Switch	Barton	58	Qualified					
IB05-A2	Differential Pressure Switch	Barton	58	Qualified					
IB05-B1	Differential Pressure Switch	Barton	58	Qualified					
IB05-B2	Differential Pressure Switch	Barton	58	Qualified					
IB11-A1	Differential Pressure Switch	Barton	58	Qualified					
IB11-A2	Differential Pressure Switch	Barton	58	Qualified					
IB11-B1	Differential Pressure Switch	Barton	58	Qualified					
IB11-B2	Differential Pressure Switch	Barton	58	Qualified					
IG06-A	Level Transmitter	GE/MAC	42		OC-85-7	Yes	Notes 1b&2	Replace	Next Refueling outage
IG06-B	Level Transmitter	GE/MAC	42		OC-85-7	Yes	Notes 1b&2	Replace	Next Refueling Outage
V-14-1	Limit Switch	Micro Switch			OC-85-26	Yes	Notes 1a&2	Replace	Note 2
V-14-5	Limit Switch	Micro Switch			OC-85-26	Yes	Notes 1a&2	Replace	Note 2
V-14-19	Limit Switch	Micro Switch			OC-85-26	Yes	Notes 1a&2	Replace	Note 2
V-14-20	Limit Switch	Micro Switch			OC-85-26	Yes	Notes 1a&2	Replace	Note 2
V-14-30	Motor Operator	Limitorque	8	Replaced/Qual.					
V-14-31	Motor Operator	Limitorque	9	Replaced/Qual.					
V-14-32	Motor Operator	Limitorque	8	Replaced/Qual.					
V-14-33	Motor Operator	Limitorque	9	Replaced/Qual.					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Emergency Condenser System (Cont'd)</u>									
V-14-34	Motor Operator	Limitorque	9	Replaced/Qual.					
V-14-35	Motor Operator	Limitorque	9	Replaced/Qual.					
V-14-36	Motor Operator	Limitorque	10	Replaced/Qual.					
V-14-37	Motor Operator	Limitorque	10	Replaced/Qual.					
<u>Core Spray and Automatic Depressurization System</u>									
IA83A	Pressure Switch and Controllers	Dresser/Barksdale	49		OC-85-1	Yes	Notes 1a&2	Replace	Next Refueling Outage
IA83B	Pressure Switch and Controllers	Dresser/Barksdale	49		OC-85-1	Yes	Notes 1a&2	Replace	Next Refueling Outage
IA83C	Pressure Switch and Controllers	Dresser/Barksdale	49		OC-85-1	Yes	Notes 1a&2	Replace	Next Refueling Outage
IA83D	Pressure Switch and Controllers	Dresser/Barksdale	49		OC-85-1	Yes	Notes 1a&2	Replace	Next Refueling Outage
IA83E	Pressure Switch and controllers	Dresser/Barksdale	49		OC-85-1	Yes	Notes 1a&2	Replace	Next Refueling Outage
NR-108A	Solenoid Valve	Dresser	37	Qualified					
NR-108B	Solenoid Valve	Dresser	37	Qualified					
NR-108C	Solenoid Valve	Dresser	37	Qualified					
NR-108D	Solenoid Valve	Dresser	37	Qualified					
NR-108E	Solenoid Valve	Dresser	37	Qualified					
NZ01A	Pump Motor	General Electric	67	Qualified					
NZ01B	Pump Motor	General Electric	67	Qualified					
NZ01C	Pump Motor	General Electric	67	Qualified					
NZ01D	Pump Motor	General Electric	67	Qualified					
NZ03A	Pump Motor	General Electric	69	Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULE EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
Core Spray and Automatic Depressurization System (Cont'd)									
NZ03B	Pump Motor	General Electric	68	Qualified					
NZ03C	Pump Motor	General Electric	69	Qualified					
NZ03D	Pump Motor	General Electric	68	Qualified					
RE17A	Pressure Switch	Barksdale	55	Qualified					
RE17B	Pressure Switch	Barksdale	55	Qualified					
RE17C	Pressure Switch	Barksdale	53	Qualified					
RE17D	Pressure Switch	Barksdale	53	Qualified					
RV26A	Flow Transmitter	GE/MAC	43		OC-85-11	Yes	Notes 1b&2	Replace	Next Refueling Outage
RV26B	Flow Transmitter	GE/MAC	43		OC-85-11	Yes	Notes 1b&2	Replace	Next Refueling Outage
RV29A	Pressure Switch	Mercoide	51		OC-85-9	Yes	Note 1a	Replace	Before 11/30/85
RV29B	Pressure Switch	Mercoide	51		OC-85-9	Yes	Note 1a	Replace	Before 11/30/85
RV29C	Pressure Switch	Mercoide	51		OC-85-9	Yes	Note 1a	Replace	Before 11/30/85
RV29D	Pressure Switch	Mercoide	51		OC-85-9	Yes	Note 1a	Replace	Before 11/30/85
RV40A	Diff. Press. Switch	SOR	52	Replaced/Qual.					
RV40B	Diff. Press. Switch	SOR	51	Replaced/Qual.					
RV40C	Diff. Press. Switch	SOR	52	Replaced/Qual.					
RV40D	Diff. Press. Switch	SOR	51	Replaced/Qual.					
RV46A	Pressure Switch	Barton	48	Qualified					
RV46B	Pressure Switch	Barton	48	Qualified					
RV46C	Pressure Switch	Barton	48	Qualified					
RV46D	Pressure Switch	Barton	48	Qualified					
V-20-3	Motor Operator Limit Switch	Limitorque			OC-85-42	No		Replace	Before 3/31/85

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

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<u>Core Spray and Automatic Depressurization System (Cont'd)</u>									
V-20-4	Motor Operator Limit Switch	Limatorque			OC-85-42	No		Replace	Before 3/31/85
V-20-15	Motor Operator	Limatorque	2	Qualified					
V-20-21	Motor Operator	Limatorque	2	Qualified					
V-20-32	Motor Operator Limit Switch	Limatorque			OC-85-42	No		Replace	Before 3/31/85
V-20-33	Motor Operator Limit Switch	Limatorque			OC-85-42	No		Replace	Before 3/31/85
V-20-40	Motor Operator	Limatorque	2	Qualified					
V-20-41	Motor Operator	Limatorque	2	Qualified					
V-20-92	Limit Switch (2)	Namco			OC-85-25	Yes	Note 1a	Replace	Before 11/30/85
V-20-93	Limit Switch (2)	Namco			OC-85-25	Yes	Note 1a	Replace	Before 11/30/85
V-20-94	Limit Switch (2)	Namco			OC-85-25	Yes	Note 1a	Replace	Before 11/30/85
V-20-95	Limit Switch (2)	Namco			OC-85-25	Yes	Note 1a	Replace	Before 11/30/85
<u>Containment Spray System</u>									
IP03A	Flow Transmitter	General Electric	45	Note 4	OC-85-12	Yes	Notes 1b& 2	Replace	Next Refueling Outage
IP03B	Flow Transmitter	General Electric	44	Note 4	OC-85-12	Yes	Notes 1b&2	Replace	Next Refueling Outage
IP15A	Pressure Switch	Barton	48	Qualified					
IP15B	Pressure Switch	Barton	48	Qualified					
IP15C	Pressure Switch	Barton	48	Qualified					
IP15D	Pressure Switch	Barton	48	Qualified					
IP18A	Temperature Switch	Ashcroft		Note 4	OC-85-19	Yes	Note 1a	Replace	Before 11/30/85
IP18B	Temperature Switch	Ashcroft		Note 4	OC-85-19	Yes	Note 1a	Replace	Before 11/30/85

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

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<u>Containment Spray System (Cont'd)</u>									
V-21-1	Motor Operator Limit Switch	Limatorque	6	Replaced/Qual.					
V-21-1	Key Lock Control Switch	General Electric	6	Note 5					
V-21-3	Motor Operator Limit Switch	Limatorque	6	Replaced/Qual.					
V-21-3	Key Lock Control Switch	General Electric		Note 5					
V-21-5	Motor Operator	Limatorque	7	Replaced/Qual.					
V-21-5	Key Lock Control Switch	General Electric		Note 5					
V-21-7	Motor Operator Limit Switch	Limatorque	6		OC-85-41	No		Replace	Before 3/31/85
V-21-7	Key Lock Control Switch	General Electric		Note 5					
V-21-9	Motor Operator Limit Switch	Limatorque	6		OC-85-41	No		Replace	Before 3/31/85
V-21-9	Key Lock Control Switch	General Electric		Note 5					
V-21-11	Motor Operator	Limatorque	7	Replaced/Qual.					
V-21-11	Key Lock Control Switch	General Electric		Note 5					
V-21-13	Motor Operator	Limatorque	13	Replaced/Qual.					
V-21-13	Key Lock Control Switch	General Electric		Note 5					
V-21-15	Motor Operator	Limatorque		Replaced/Qual.					
V-21-15	Key Lock Control Switch	General Electric		Note 5					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Containment Spray System (Cont'd)</u>									
V-21-17	Motor Operator	Limitorque	15	Replaced/Qual.					
V-21-17	Key Lock Control Switch	General Electric		Note 5					
V-21-18	Motor Operator	Limitorque		Replaced/Qual.					
V-21-18	Key Lock Control Switch	General Electric		Note 5					
1-1	Pump Motor	General Electric	70	Qualified					
1-2	Pump Motor	General Electric	70	Qualified					
1-3	Pump Motor	General Electric	70	Qualified					
1-4	Pump Motor	General Electric	70	Qualified					
<u>Drywell & Suppression System</u>									
DPS-66A	Differential Pressure Switch	ITT Barton		Note 4	OC-85-15	Yes	Notes 1a&2 Replace		Note 2
DPS-66B	Differential Pressure Switch	ITT Barton		Note 4	OC-85-15	Yes	Notes 1a&2 Replace		Note 2
LT-37	Level Transmitter	Rosemount		Qualified					
LT-38	Level Transmitter	Rosemount		Qualified					
PT-53	Pressure Transmitter	Rosemount		Qualified					
PT-54	Pressure Transmitter	Rosemount		Qualified					
RE04A	Pressure Switch	Static-O-Ring	50	Note 4	OC-85-5	Yes	Notes 1a&2 Replace		Note 2
RE04B	Pressure Switch	Static-O-Ring	50	Note 4	OC-85-5	Yes	Notes 1a&2 Replace		Note 2
RE04C	Pressure Switch	Static-O-Ring	50	Note 4	OC-85-5	Yes	Notes 1a&2 Replace		Note 2
RE04D	Pressure Switch	Static-O-Ring	50	Note 4	OC-85-5	Yes	Notes 1a&2 Replace		Note 2
TE-109A	Temperature Element	Pyco		Note 4	OC-85-34	Yes	Note 1a Replace		Before 11/30/85

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Drywell & Suppression System (Cont'd)</u>									
TE-109B	Temperature Element	Pyco		Note 4	OC-85-34	Yes	Note 1a	Replace	Before 11/30/85
TE-109C	Temperature Element	Pyco		Note 4	OC-85-34	Yes	Note 1a	Replace	Before 11/30/85
TE-109D	Temperature Element	Pyco		Note 4	OC-85-34	Yes	Note 1a	Replace	Before 11/30/85
Tip Ball Valves	Solenoid Valves	General Electric			OC-85-39	Yes		Analysis	Before 11/30/85
V-5-147	Motor Operator	Limitorque	14		OC-85-3	Yes	Note 2	Partial Replcmt.	Note 2
V-5-166	Motor Operator	Limitorque	11	Qualified					
V-5-167	Motor Operator	Limitorque	14		OC-85-3	Yes	Note 2	Partial Replcmt.	Note 2
V-6-395	Limit Switch	Namco		Qualified					
V-16-1	Motor Operator	Limitorque	3	Replaced/Qual.					
V-16-2	Motor Operator	Limitorque	4	Replaced/Qual.					
V-16-14	Motor Operator	Limitorque	4	Replaced/Qual.					
V-16-61	Motor Operator	Limitorque	4	Qualified					
V-17-1	Motor Operator	Limitorque	5	Replaced/Qual.					
V-17-2	Motor Operator	Limitorque	5	Replaced/Qual.					
V-17-3	Motor Operator	Limitorque	5	Replaced/Qual.					
V-17-19	Motor Operator	Limitorque	3	Replaced/Qual.					
V-17-54	Motor Operator	Limitorque	1	Replaced/Qual.					
V-17-55	Motor Operator Limit Switch	Limitorque	5		OC-85-40	No		Replace	Before 3/31/85
V-17-56	Motor Operator Limit Switch	Limitorque	5		OC-85-40	No		Replace	Before 3/31/85
V-17-57	Motor Operator Limit Switch	Limitorque	5		OC-85-40	No		Replace	Before 3/31/85
V-22-1	Limit Switches (2)	Namco		Qualified					
(See Page 20 for Notes.)									

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

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Drywell & Suppression System (Cont'd)									
V-22-2	Limit Switches (2)	Namco		Qualified					
V-22-28	Limit Switches (2)	Namco		Qualified					
V-22-29	Limit Switches (2)	Namco		Qualified					
V-23-13	Limit Switches (2)	Micro Switch			OC-85-30	Yes	Note 1a	Replace	Before 11/30/85
V-23-14	Limit Switches (2)	Micro Switch			OC-85-30	Yes	Note 1a	Replace	Before 11/30/85
V-23-15	Limit Switches (2)	Micro Switch			OC-85-30	Yes	Note 1a	Replace	Before 11/30/85
V-23-16	Limit Switches (2)	Micro Switch			OC-85-30	Yes	Note 1a	Replace	Before 11/30/85
V-23-17	Limit Switches (2)	Namco			OC-85-30	Yes	Note 1a&2	Replace	Note 2
V-23-18	Limit Switches (2)	Namco			OC-85-30	Yes	Note 1a&2	Replace	Note 2
V-23-19	Limit Switches (2)	Namco		Qualified					
V-23-20	Limit Switches (2)	Namco		Qualified					
V-23-21	Limit Switches (2)	Namco			OC-85-30	Yes	Notes 1a&2	Replace	Note 2
V-23-22	Limit Switches (2)	Namco			OC-85-30	Yes	Notes 1a&2	Replace	Note 2
V-26-16	Limit Switches (2)	Micro Switch		Qualified					
V-26-18	Limit Switches (2)	Micro Switch		Qualified					
V-27-1	Limit Switches (2)	Micro Switch			OC-85-28	Yes	Note 1a	Replace	Before 11/30/85
V-27-2	Limit Switches (2)	Micro Switch			OC-85-28	Yes	Note 1a	Replace	Before 11/30/85
V-27-3	Limit Switches (2)	Namco			OC-85-28	Yes	Note 1a	Replace	Before 11/30/85
V-27-4	Limit Switches (2)	Namco			OC-85-28	Yes	Note 1a	Replace	Before 11/30/85
V-28-17	Limit Switches	Namco			OC-85-32	Yes	Note 1a	Replace	Before 11/30/85
V-28-18	Limit Switches	Namco			OC-85-32	Yes	Note 1a	Replace	Before 11/30/85
V-28-47	Limit Switches (2)	Namco			OC-85-32	Yes	Note 1a	Replace	Before 11/30/85
V-31-2	Limit Switch	Namco			OC-85-45	Yes	Note 1a	Replace	Before 11/30/85

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

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<u>Main Steam System</u>									
IB10A	Temperature Switch	Fenwal	65	Qualified					
IB10B	Temperature Switch	Fenwal	65	Qualified					
IB10C	Temperature Switch	Fenw	65	Qualified					
IB10D	Temperature Switch	Fenwal	65	Qualified					
IB10E	Temperature Switch	Fenwal	65	Qualified					
IB10F	Temperature Switch	Fenwal	65	Qualified					
IB10G	Temperature Switch	Fenwal	65	Qualified					
IB10H	Temperature Switch	Fenwal	65	Qualified					
IB10J	Temperature Switch	Fenwal	65	Qualified					
IB10K	Temperature Switch	Fenwal	65	Qualified					
IB10L	Temperature Switch	Fenwal	65	Qualified					
IB10M	Temperature Switch	Fenwal	65	Qualified					
IB10N	Temperature Switch	Fenwal	65	Qualified					
IB10P	Temperature Switch	Fenwal	65	Qualified					
IB10Q	Temperature Switch	Fenwal	65	Qualified					
IB10R	Temperature Switch	Fenwal	65	Qualified					
RE22A	Differential Press. Indicating Switch	Barton	57	Qualified					
RE22B	Differential Press. Indicating Switch	Barton	57	Qualified					
RE22C	Differential Press. Indicating Switch	Barton	57	Qualified					
RE22D	Differential Press. Indicating Switch	Barton	57	Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

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Main Steam System (Cont'd)									
RE22E	Differential Press. Indicating Switch	Barton	57	Qualified					
RE22F	Differential Press. Indicating Switch	Barton	57	Qualified					
RE22G	Differential Press. Indicating Switch	Barton	57	Qualified					
RE22H	Differential Press. Indicating Switch	Barton	57	Qualified					
RE23A	Pressure Switch	Meletron	46	Qualified					
RE23B	Pressure Switch	Meletron	46	Qualified					
RE23C	Pressure Switch	Meletron	46	Qualified					
RE23D	Pressure Switch	Meletron	46	Qualified					
NS03A (V-1-7) A,B,D	Limit Switches	Namco		Replaced/Qual.					
NS-03A-L1 (V-1-7)	Solenoid Valve	Asco	17	Qualified					
NS-03A-L2 (V-1-7)	Solenoid Valve	Asco	17	Qualified					
NS-03A-L3 (V-1-7)	Solenoid Valve	Asco	17	Qualified					
NS03B (V-1-8) A,B,D	Limit Switches	Namco		Replaced/Qual.					
NS-03B-L1 (V-1-8)	Solenoid Valve	Asco	18	Qualified					
NS-03B-L2 (V-1-8)	Solenoid Valve	Asco	18	Qualified					

(See Page 20 for Notes.)

1-8)

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Main Steam System (Cont'd)</u>									
NS-03B-L3 (V-1-8)	Solenoid Valve	Asco	18	Qualified					
NS04A (V-1-9) A,B,D	Limit Switches	Namco	64	Replaced/Qual.					
NS04B (V-1-10) A,B,D	Limit Switches	Namco	64	Replaced/Qual.					
V-1-106	Motor Operator Limit Switches	Limatorque	12		OC-85-44	Yes	Notes 1a&2 Partial Replcmt.		Note 2
V-1-107	Motor Operator Limit Switches	Limatorque	12		OC-85-44	Yes	Notes 1a&2 Partial Replcmt.		Note 2
V-1-110	Motor Operator Limit Switches	Limatorque			OC-85-44	Yes	Notes 1a&2 Partial Replcmt.		Note 2
V-1-111	Motor Operator Limit Switches	Limatorque			OC-85-44	Yes	Notes 1a&2 Partial Replcmt.		Note 2
V-6-2679 (NS-04B-L1)	Solenoid Valve	Asco	19	Qualified					
V-6-2680 (NS-04BL2)	Solenoid Valve	Asco	19	Qualified					
V-6-2681 (NS-04BL3)	Solenoid Valve	Asco	19	Qualified					
V-6-2683 (NS-04A-L1)	Solenoid Valve	Asco	20	Qualified					
V-6-2685 (NS-04A-L2)	Solenoid Valve	Asco	20	Qualified					
V-6-2685 (NS-04A-L3)	Solenoid Valve	Asco	20	Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Condensate Transfer System</u>									
V-6-457 (For V-11-34)	Solenoid Valve	Asco	32	Replaced/Qual.					
V-6-458 (For V-11-36)	Solenoid Valve	Asco	32	Replaced/Qual.					
V-11-34	Limit Switch	Fisher Governor Co.			OC-85-31	Yes	Note 1a	Replace	Before 11/30/85
V-11-36	Limit Switch	Fisher Governor Co.			OC-85-31	Yes	Note 1a	Replace	Before 11/30/85
<u>Emergency Service Water System</u>									
V-3-87	Control Switch	General Electric		Note 5					
V-3-88	Control Switch	General Electric		Note 5					
<u>Reactor Plant Instrumentation System</u>									
IA-90A	Differential Press. Transmitter	Rosemount			OC-85-37	Yes	Notes 1b&2	Replace	Note 2
IA-90B	Differential Press. Transmitter	Rosemount			OC-85-37	Yes	Notes 1b&2	Replace	Note 2
IA-91A	Differential Press. Transmitter	General Electric			OC-85-37	Yes	Notes 1b&2	Replace	Note 2
IA-91B	Differential Press. Transmitter	General Electric			OC-85-37	Yes	Notes 1b&2	Replace	Note 2
IA-92A	Pressure Transmitter	Rosemount			OC-85-37	Yes	Notes 1b&2	Replace	Note 2
IA-92B	Pressure Transmitter	Rosemount			OC-85-37	Yes	Notes 1b&2	Replace	Note 2
ID13A	Level Transmitter	General Electric	41		OC-85-8	Yes	Notes 1b&2	Replace	Next Refueling Outage
ID13B	Level Transmitter	General Electric	41		OC-85-8	Yes	Notes 1b&2	Replace	Next Refueling Outage
ID46A	Pressure Indicating Transmitter	GE/MAC	38		OC-85-6	Yes	Notes 1b&2	Replace	Next Refueling Outage
ID46B	Pressure Indicating Transmitter	GE/MAC	38		OC-85-6	Yes	Notes 1b&2	Replace	Next Refueling Outage

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	ECO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
Reactor Plant Instrumentation System (Cont'd)									
RE02A	Level Indicating Switch	Yarway	62	Qualified					
RE02B	Level Indicating Switch	Yarway	62		OC-85-14	Yes	Notes 1a&2	Replace	Note 2
RE02C	Level Indicating Switch	Yarway	62		OC-85-14	Yes	Notes 1a&2	Replace	Note 2
RE02D	Level Indicating Switch	Yarway	62		OC-85-14	Yes	Notes 1a&2	Replace	Note 2
RE03A	Pressure Switch	Barksdale	56	Qualified					
RE03B	Pressure Switch	Barksdale	56	Qualified					
RE03C	Pressure Switch	Barksdale	56	Qualified					
RE03D	Pressure Switch	Barksdale	56	Qualified					
RE05A	Level Indicating Switch	Yarway	63		OC-85-22	Yes	Notes 1b&2	Replace	Next Refueling Outage
RE05/19A	Level Indicating Switch	Yarway	61		OC-85-22	Yes	Notes 1b&2	Replace	Next Refueling Outage
RE05B	Level Indicating Switch	Yarway	63		OC-85-22	Yes	Notes 1b&2	Replace	Next Refueling Outage
RE05/19B	Level Indicating Switch	Yarway	61		OC-85-22	Yes	Notes 1b&2	Replace	Next Refueling Outage
RE15A	Pressure Switch	Barksdale	54	Qualified					
RE15B	Pressure Switch	Barksdale	54	Qualified					
RE15C	Pressure Switch	Barksdale	54	Qualified					
RE15D	Pressure Switch	Barksdale	54	Qualified					
RE16A	Pressure Switch	Barksdale		Qualified					
RE16B	Pressure Switch	Barksdale		Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Reactor Plant Instrumentation System (Cont'd)</u>									
RE18A	Level Indicating Switch	Barton	60	Qualified					
RE18B	Level Indicating Switch	Barton	60	Qualified					
RE18C	Level Indicating Switch	Barton	60	Qualified					
RE18D	Level Indicating Switch	Barton	60	Qualified					
TE-56-1A	Temperature Element	Pyco		Qualified					
TE-57-2A	Temperature Element	Hy-Cal			OC-85-37	Yes	Note 1a	Replace	Before 11/30/85
TE-58-1B	Temperature Element	Pyco		Qualified					
TE-59-2B	Temperature Element	Hy-Cal			OC-85-37	Yes	Note 1a	Replace	Before 11/30/85
TE-130-450	Temperature Element	Pyco		Qualified					
TE-130-451	Temperature Element	Pyco		Qualified					
TE-130-453	Temperature Element	Pyco		Qualified					
TE-130-454	Temperature Element	Pyco		Qualified					
<u>Reactor Protection System</u>									
RD87C	Level Switch	Magnetrol	59	Replaced/Qual.					
RD88B	Level Switch	Magnetrol	59	Replaced/Qual.					
RD91A	Level Switch	Magnetrol	59	Replaced/Qual.					
RD92D	Level Switch	Magnetrol	59	Replaced/Qual.					
<u>Safety & Relief Valve Monitor System</u>									
MS-VE-1 Thru 21	Accelerometers	Endevco		Note 3	OC-85-16	No		Analysis	Before 3/31/85
MS-VX-1 Thru 21	Line Driver	Uholtz-Dickie			OC-85-16	Yes	Note 2	Relocate	Next refueling outage

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Safety & Relief Valve Monitor System (Cont'd)</u>									
TB-NR-28A Thru H, J Thru N, P Thru R. TB-NR-108A Thru E.	Terminal Block	TRW-Cinch			OC-85-16	Yes	Note 2	Relocate	Next refueling outage
<u>Hydrogen and Oxygen Monitoring System</u>									
IT-1A	H ₂ /O ₂ Analyzer	Comsip Inc.		Qualified					
IT-1B	H ₂ /O ₂ Analyzer	Comsip Inc.		Qualified					
V-38-22	Solenoid Valve	Asco	29	Replaced/Qual.					
V-38-23	Solenoid Valve	Asco	29	Replaced/Qual.					
V-38-37	Solenoid Valve	Target Rock		Qualified					
V-38-38	Solenoid Valve	Target Rock		Qualified					
V-38-39	Solenoid Valve	Target Rock		Qualified					
V-38-40	Solenoid Valve	Target Rock		Qualified					
V-38-41	Solenoid Valve	Target Rock		Qualified					
V-38-43	Solenoid Valve	Target Rock		Qualified					
V-38-44	Solenoid Valve	Target Rock		Qualified					
V-38-46	Solenoid Valve	Target Rock		Qualified					
V-40-6	Solenoid Valve	Valcor Engineering		Qualified					
SS	CPM Selector Switch	General Electric		Note 4	OC-85-29	Yes	Note 1a	Replace/Reloc.	Before 11/30/85
6K37X	Relay	Agastat		Note 4	OC-85-29	Yes	Note 1a	Replace/Reloc.	Before 11/30/85
6K46X	Relay	Agastat		Note 4	OC-85-29	Yes	Note 1a	Replace/Reloc.	Before 11/30/85

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>4160 Volt System</u>									
1A	Non-Emergency Switchgear	General Electric			OC-85-47	Yes	Note 10	Analysis	Before 11/30/85
1B	Non-Emergency Switchgear	General Electric			OC-85-47	Yes	Note 10	Analysis	Before 11/30/85
1C	Emergency Switchgear	General Electric			OC-85-47	Yes	Note 10	Analysis	Before 11/30/85
1D	Emergency Switchgear	General Electric			OC-85-47	Yes	Note 10	Analysis	Before 11/30/85
<u>460 Volt System</u>									
STD	Static Time Delay Unit for USS 1A1, BKR 011B	General Electric			OC-85-49	Yes	Note 10	Analysis	Before 11/30/85
STD	Static Time Delay Unit for USS 1B1, BKR 021B	General Electric			OC-85-49	Yes	Note 10	Analysis	Before 11/3/085
1A1	460V Unit Substation	General Electric			OC-85-48	Yes	Note 10	Analysis	Before 11/30/85
1A11	460V MCC	General Electric			OC-85-51	Yes	Note 9	Analysis	Before 11/30/85
1A12	460V MCC	General Electric			OC-85-51	Yes	Note 9	Analysis	Before 11/30/85
1A21A	460V MCC	General Electric			OC-85-51	Yes	Note 9	Analysis	Before 11/30/85
1A21B	460V MCC	General Electric	73		OC-85-51	Yes	Note 9	Analysis	Before 11/30/85
1AB2	460V MCC	General Electric	74		OC-85-52	Yes	Note 9	Analysis	Before 11/30/85
1B1	460V Unit Substation	General Electric			OC-85-48	Yes	Note 10	Analysis	Before 11/30/85
1B13	460V MCC	General Electric			OC-85-51	Yes	Note 9	Analysis	Before 11/30/85
1B21A	460V MCC	General Electric	74		OC-85-52	Yes	Note 9	Analysis	Before 11/30/85
1B21B	460V MCC	General Electric	74		OC-85-52	Yes	Note 9	Analysis	Before 11/30/85
<u>125 Volt Station DC System</u>									
Battery Bank C	Batteries	Gould Inc.		Qualified					
C-1	Battery Charger	Power Conversion Products		Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>125 Volt Station DC System (Cont'd)</u>									
C-2	Battery Charger	Power Conversion Products		Qualified					
DC-C	Distribution Center	Gould Inc.		Qualified					
DC-1	Motor Control Center	General Electric	73		OC-85-52	Yes	Note 9	Analysis	Before 11/30/85
DC-2	Motor Control Center	ITE Gould	75	Note 3	OC-85-21	Yes	Note 1a	Partial Replcmt	Before 11/30/85
<u>Common Items</u>									
	Cable	Anaconda		Qualified					
	Cable	Boston Insulated Wire		Qualified					
	Cable	General Electric (Power)	78	Qualified					
	Cable	General Electric (Control)	79	Qualified					
	Cable	Kerite FR	82	Qualified					
	Cable	Kerite HT	82	Qualified					
	Cable	Rockbestos EP	80		OC-85-20	Yes	Note 8	Test	Note 8
	Cable	Rockbestos Firewall III			OC-85-20	Yes	Note 8	Test	Note 8
	Cable	Tensolite	81	Qualified					
	Electrical Connectors	ITT Cannon	76	Qualified					
	Electrical Connectors	ITT Cannon	77	Qualified					
	Electrical Penetration	General Electric	72		OC-85-50	Yes	Note 10	Analysis	Before 11/30/85
	Splice	Raychem WCSF-N	83	Qualified					
	Splice	Raychem NPKV		Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Common Items (Cont'd)</u>									
	Cable	Okonite (Okozel)		Qualified					
	Terminal Blocks	General Electric		Qualified					
	Terminal Blocks	Weidmuller	71	Qualified					
	Wire Terminals	AMP-PIDG, Plasti-Grip		Qualified					
	Wire Terminals	Thomas and Betts		Qualified					
	Terminal Block	Marathon		Qualified					
	Terminal Block	Buchanan		Qualified					
	Coaxial Cable	Endevco			OC-85-16	Yes	Note 2	Replace	Next refueling outage
	Cable	Okonite (X-Olene)		Qualified					
<u>Standby Gas Treatment/Reactor Building Ventilation System</u>									
TE28-6A	Temperature Element	Weed		Qualified					
TE28-6B	Temperature Element	Weed		Qualified					
TE28-7A	Temperature Element	Weed		Qualified					
TE28-7B	Temperature Element	Weed		Qualified					
V-6-578	Solenoid Valve	Asco		Qualified					
V-6-580	Solenoid Valve	Asco		Qualified					
V-28-9	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-10	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-11	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-12	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-13	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-14	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
(See Page 20 for Notes.)									

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

COMPONENT TAG NO.	GENERIC NAME	MANUFACTURER	TER NO.	COMPONENT QUALIFICATION STATUS	JCO NO.	SCHEDULAR EXTENSION REQUESTED	REASON FOR EXTENSION REQUESTED	QUALIFICATION METHOD	SCHEDULE FOR QUALIFICATION
<u>Standby Gas Treatment/Reactor Building Ventilation System (Cont'd)</u>									
V-28-15	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-16	Limit Switches (2)	Namco			OC-85-33	Yes	Note 1a	Replace	Before 11/30/85
V-28-21	Limit Switches (2)	Namco			OC-85-36	Yes	Note 1a	Replace	Before 11/30/85
V-28-22	Limit Switches (2)	Namco			OC-85-36	Yes	Note 1a	Replace	Before 11/30/85
V-28-23	Limit Switch	Contromatics		Qualified					
V-28-24	Limit Switch	Contromatics		Qualified					
V-28-27	Limit Switch	Contromatics		Qualified					
V-28-28	Limit Switch	Contromatics		Qualified					
V-28-48	Limito			OC-85-36		Yes	Note 1a	Replace	Before 11/30/85
V-28-23	Limit Switch	Contromatics		Qualified					
V-28-24	Limit Switch	Contromatics		Qualified					
V-28-27	Limit Switch	Contromatics		Qualified					
V-28-28	Limit Switch	Contromatics		Qualified					
V-28-48	Limit Switch	Contromatics		Qualified					

(See Page 20 for Notes.)

ATTACHMENT I
OYSTER CREEK ENVIRONMENTAL QUALIFICATION STATUS

NOTES:

- Note 1a: This component is expected to be delivered between March 31, 1985 and November 30, 1985.
- Note 1b: This component is expected to be delivered after November 30, 1985.
- Note 2: Replacement of this component requires a plant shutdown. Next plant shutdown (Cycle 11 refuel outage) is scheduled to commence sometime after March 1986. However, GPUN will attempt to replace this component during the first unscheduled outage of a sufficient length following receipt of the component from the supplier and completion of engineering. Otherwise, the replacement of this component will be accomplished during the Cycle 11 refuel outage.
- Note 3: This component has already been qualified at other nuclear plants, and there is a high degree of confidence that qualification will be documented for Oyster Creek. Documentation is being prepared to complete the EQ file.
- Note 4: This component will be deleted if further analysis shows that it is not subjected to a harsh environment for the accident it is required to mitigate.
- Note 5: This component was disconnected in March, 1985. It will be reconnected with qualified components.
- Note 6: Not Used
- Note 7: Not Used
- Note 8: Final qualification of the cable will be confirmed by a supplementary test to be performed by the manufacturer. This test is scheduled to be completed by July 1986.
- Note 9: Qualification report is being prepared by vendor for Oyster Creek based on the BWR MCC Qualification Program. Interim letter report concludes that a large majority of the devices are capable of showing qualification. The few remaining devices can be qualified by replacement, similarity analysis, or possibly minor testing. This qualification report will be available by the end of April, 1985.
- Note 10: Qualification documentation is being prepared by vendor. Interim letter report concludes that there is a high degree of confidence that this component is qualified.

JCO-OC-85-2, Rev. 2
March 8, 1985
Page 1 of 2

OYSTER CREEK NUCLEAR GENERATING STATION
JUSTIFICATION FOR CONTINUED OPERATION (JCO)

JCO-OC-85-2, Rev. 2
March 8, 1985
Page 2 of 2

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JCO-OC-85-4, Rev. 2
March 8, 1985
Page 1 of 2

OYSTER CREEK NUCLEAR GENERATING STATION
JUSTIFICATION FOR CONTINUED OPERATION(JCO)

JCO-OC-85-4, Rev. 2
March 8, 1985
Page 2 of 2

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JCO-OC-85-21, Rev. 2
March 8, 1985
Page 1 of 2

OYSTER CREEK NUCLEAR GENERATING STATION
JUSTIFICATION FOR CONTINUED OPERATION (JCO)

COMPONENTS

Tag Numbers	DC-2
Description	125V DC Power Supply

OBJECTIVE

The objective of this discussion is to determine that failure of this component will not degrade other safety systems nor mislead the operator.

COMPONENT LOCATION

This power supply is located in the northeast quadrant of the Reactor Building on elevation 75'3".

COMPONENT FUNCTION

This component provides power to the vent valves and one of the condensate return valves for one of the isolation condensers.

EVALUATION

The component sees a harsh environment for the isolation condenser break outside the drywell. If DC-2 supplies power to the affected isolation condenser and subsequently failed, it would not result in a degradation of the isolation function of the affected condenser because other redundant AC isolation valves which are not powered from DC-2 will close on an isolation signal. If the power supply was associated with the intact condenser and subsequently failed, it would at worst cause the condenser to be rendered inoperative. The operator would then make use of alternate decay heat removal systems.

If DC-2 failed prior to satisfying its function, decay heat removal would be through the EMRVs with RPV inventory makeup supplied by Core Spray. This mode could be sustained for a lengthy period due to the large heat capacity of the torus pool. The Containment Spray system could be subsequently used to provide torus pool heat removal.

The operator would not be misled by the loss of DC-2 since the valve position indicating lights for the valves would inform him of the incorrect situation and would allow him to take the appropriate actions.

CONCLUSION

The loss of DC-2 will not degrade other plant safety functions and will not provide misleading information to the operator.

JCO-OC-85-24, Rev. 1
March 8, 1985
Page 1 of 2

OYSTER CREEK NUCLEAR GENERATING STATION
JUSTIFICATION FOR CONTINUED OPERATION(JCO)

JCO-OC-85-24, Rev. 1
March 8, 1985
Page 2 of 2

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JCO-OC-85-43, Rev. 1
March 8, 1985
Page 1 of 2

OYSTER CREEK NUCLEAR GENERATING STATION
JUSTIFICATION FOR CONTINUED OPERATION(JCO)

JCO-OC-85-43, Rev. 1

March 8, 1985

Page 2 of 2

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