Attachment 3

EVALUATION FOR EXTENSION OF SELECTED REACTOR PROTECTION SYSTEM AND ENGINEERED SAFETY FEATURE ACTUATION SYSTEM (ESFAS) TECHNICAL SPECIFICATION CHANNEL FUNCTIONAL TEST FROM MONTHLY TO QUARTERLY

Technical Evaluation Report 13477

A1.003A

BEAVER VALLEY POWER STATION
TECHNICAL EVALUATION REPORT SUMMARY SHEET

TER No. 13477 Rev. No. 0 Unit No. 3 EM / ~~PEF/VTI Tracking~~ No. 118532

WO No. N/A Other Inst Doc. N/A Sys No. 36, 37 Priority 3

EVALUATION TYPE (Check Most Appropriate Block):

____ Vendor Technical Information (VTI)	____ Design Document Discrepancy (DDDE)
____ Communication System Change (CSCE)	____ QA Classification Determination (QACL)
____ Component Design Equivalent Change (CDEC)	____ Retirement In Place (RIP)
____ Part Design Equivalent Change (PDEC)	____ Setpoint Change (SPCE)
____ Vendor Approved Part Change (VAPC)	X Other (Equivalency or Evaluation)
____ Vendor Recommended Part Change (VRPC)	____ Administrative Control (ADC)
____ Change to Non CPE List	

Title: Evaluation for Extension of Selected RPS and ESFAS Tech Spec Channel Functional Test from Monthly to Quarterly

Is Technical Evaluation Notification Sheet attached? ____ Yes X No

Prepared By: WAYNE G. TOBAC / Wayne G. Tobac / x7892 — Engineer (Printed Name / Signature / Extension) — 10/16/00 Date

Independent Review: Curt F. Ciocco / Curt F. Ciocco / x1872 — Engineer — 10/16/00 Date

Approved By: _____ — Section Supervisor — 10-16-00 Date

OSC Review: N/A (per NEAP 2.13, Sect 4.3.6) — OSC Chairman; OSC Meeting No. — Date

Approved By: N/A — Director, Plant Engineering (Only Non-CPE List Changes) — Date

All TUFs Attached: Susan Herbel (Delayed TUFs) — TER Administrator — 10/16/00 Date

Approved By: N/A — Plant Manager (All TERs reviewed by the OSC) — Date

TECHNICAL EVALUATION REPORT SUMMARY SHEET

A1.003A
TER No. 13477
Revision No. 0
Page No. 2

A. Describe in detail the purpose / scope of the technical evaluation. Clearly define the present operation, configuration and purpose of the existing part / component / system / structure / information as applicable.

The purpose of this TER is to provide the basis to allow the monthly surveillance requirements of selected RPS and ESFAS Tech Spec functions to be extended to quarterly surveillances. Historical drift data for the RPS and ESFAS Tech Spec functions listed in Table 1 has been evaluated to determine if sufficient margin exists in the recently completed Westinghouse setpoint update uncertainty calculations to extend the Tech Spec channel functional test frequency from monthly to quarterly.

An evaluation has been prepared by General Physics Corporation to establish drift uncertainties for the Tech Spec functions listed in Table 1. This evaluation is filed under FENOC calculation 10080-DEC-0222, Revision 0. The calculated drift uncertainties are based on actual plant historical drift data as opposed to the drift allowance that is currently reflected in the recently completed Westinghouse uncertainty calculations. In general, the drift allowance used in the recently completed Westinghouse uncertainty calculations are based on manufacturers supplied drift allowances or on engineering assumptions.

The calculated drift uncertainties were evaluated on a quarterly (three month) time period in order to justify extending the functional test frequency. The drift evaluation was performed at a 95 / 95 confidence level and was done in accordance with EPRI Document TR-103335, "Guidelines for Instrument Calibration Extension/Reduction Programs", 3/94 and ISA-RP67.04, Part II, "Methodologies for the Determination of Setpoints for Nuclear Safety-Related Instrumentation", Appendix E.

The Design Engineering group then evaluated/compared the drift uncertainties prepared by General Physics to the drift values currently used in the recently completed Westinghouse uncertainty calculations (See Table 2). In most cases, the current drift uncertainty is larger than the calculated drift uncertainty and therefore provides additional margin between the Tech Spec field setpoint and the analytical limit. In those cases where the current drift uncertainty does not bound the calculated drift uncertainty, positive margin still exists with the application of the calculated drift uncertainty. (See Table 2) Therefore, it is acceptable to extend the Tech Spec surveillance requirements from monthly to quarterly for the functions listed in Table 1.

B. Provide conclusion, basis for conclusion, and any recommended actions as a result of the evaluation.

The evaluation performed by the Design Engineering group indicates that sufficient margin exists to extend the Tech Spec surveillance requirements for the functions listed in Table 1 from monthly to quarterly. Attached Table 2 summarizes the results of this evaluation.

Note that this TER provides the basis to extend the Tech Spec surveillances. This TER does not authorize a Tech Spec change. Licensing is required to prepare the appropriate Licensing Amendment Request to implement this change. **No plant changes are to be**

made as a result of this TER.

Also note that the uncertainties and allowable values established by the recently completed Westinghouse uncertainty calculations will not be updated to reflect the revised drift uncertainties except for cases where the margin has decreased (i.e. calculation 10080-DEC-0211 for U2 4KV Degraded Grid relays). All that is being done by this TER is to evaluate the actual historical plant drift data in order to justify extending the Tech Spec surveillance requirements from monthly to quarterly. This information is to be conveyed to the NRC as part of the LAR submittal.

C. List individually each applicable EIN or Generic Identification for Generic Evaluations (Attach additional sheets or AEL printout as applicable).

EIN	EIN	EIN
See attached list		

D. References used in preparing this TER (Attach additional sheets as applicable):

See attached list

E. Affected documents to be immediately updated (Notification of Installation not required for update). An * denotes document to be deleted from previous evaluation.

Unit	Doc. No.	Rev.	RTL # If VTI	Type 1 yes/no
3	10080-DEC-0222	0	N/A	No
2	10080-DEC-0211	0	N/A	No

Unit	Doc. No.	Rev.	RTL# If VTI	Type 1 yes/no

TER Summary Section (cont.) Part C – List of EINs:

Unit 1

Relay	Function
27-VA100	RCP 1A Bus UV
27-VB100	RCP 1B Bus UV
27-VC100	RCP 1C Bus UV
81-VA100	RCP 1A Bus U/F
81-VB100	RCP 1B Bus U/F
81-VC100	RCP 1C Bus U/F
27-VE100	4KV Emerg Bus UV Trip Feed
27-VF100	4KV Emerg Bus UV Trip Feed
27-VE1100	4KV Emerg Bus UV EDG Start
27-VF1100	4KV Emerg Bus UV EDG Start
27-VE2100AB	4KV Emerg Bus UV Degr Grid
27-VE2100BC	4KV Emerg Bus UV Degr Grid
27-VF2100AB	4KV Emerg Bus UV Degr Grid
27-VF2100BC	4KV Emerg Bus UV Degr Grid
27-RN2100AB	480 Emerg Bus UV Degr Grid
27-RN2100BC	480 Emerg Bus UV Degr Grid
27-RP2100AB .	480 Emerg Bus UV Degr Grid
27-RP2100BC	480 Emerg Bus UV Degr Grid

Unit 2

Relay	Function
27-VA3200	RCP 21A UV
27-VB3200	RCP 21B UV
27-VC3200	RCP 21C UV
81-VA200	RCP 21A U/F
81-VB200	RCP 21B U/F
81-VC200	RCP 21C U/F
27-VE200	4KV Emerg Bus UV Trip Feed
27-VE1200	4KV Emerg Bus UV Trip Feed

27-VF200	4KV Emerg Bus UV Trip Feed
27-VF1200	4KV Emerg Bus UV Trip Feed
27-VE2200	4KV Emerg Bus UV EDG Start
27-VF2200	4KV Emerg Bus UV EDG Start
27-VE3200AB	4KV Emerg Bus UV Degr Grid
27-VE3200BC	4KV Emerg Bus UV Degr Grid
27-VF3200AB	4KV Emerg Bus UV Degr Grid
27-VF3200BC	4KV Emerg Bus UV Degr Grid
27-RN200AB	480 Emerg Bus UV Degr Grid
27-RN200BC	480 Emerg Bus UV Degr Grid
27-RP200AB	480 Emerg Bus UV Degr Grid
27-RP200BC	480 Emerg Bus UV Degr Grid

TER Summary Section (cont.) Part D – List of References:

- 10080-DEC-0222, Revision 0, "Beaver Valley Units 1 and 2 Drift Evaluation Results for RTS/ESFAS Relay Instrumentation".
- EM-118532, "Extension of Selected RPS and ESFAS TS Monthly Channel Functional Tests to a Quarterly Test Frequency", dated 10/99.
- EPRI Document TR-103335, "Guidelines for Instrument Calibration Extension/Reduction Programs", 3/94.
- ISA-RP67.04, Part II, "Methodoligies for the Determination of Setpoints for Nuclear Safety-Related Instrumentation", Appendix E.
- WCAP-10271, Supplement 1-P-A, "Evaluation of Surveillance Frequencies and Out of Service Times for the Reactor Protection Instrumentation System, Supplement 1".
- WCAP-10271-P-A, Supplement 2, Revision 1, "Evaluation of Surveillance Frequencies and Out of Service Times for the Engineered Safety Features Actuation System".
- UFSAR Section 8, Electric Power.
- Technical Specifications ¾.3.1 and ¾.3.2
- General Physics Letter GP-L-76100051B, "Transmittal of BVPS Unit 1 Relay Drift Evaluations", July 20, 2000.
- General Physics Letter GP-L-76100051D, "Transmittal of BVPS Unit 2 Relay Drift Evaluations", July 20, 2000.

- 8700-DEC-0211, Revision 0, "Beaver Valley Unit 1 RCP Undervoltage & Underferquency Uncertainty Calculation", 2/00.

- 10080-DEC-0214, Revision 0, "Beaver Valley Unit 2 RCP Undervoltage & Underferquency Uncertainty Calculation", 2/00.

- 8700-DEC-0150, Revision 0, "Beaver Valley Unit 1 480 Volt Emergency Bus Undervoltage-Degraded Voltage", 10/99.

- 8700-DEC-0149, Revision 0, "Beaver Valley Unit 1 4.16 kV Emergency Bus Undervoltage-Degraded Voltage", 10/99.

- 10080-DEC-0211, Revision 0, "Beaver Valley Unit 2 4.16 kV Emergency Bus Undervoltage-Degraded Voltage", 10/99.

- 10080-DEC-0212, Revision 0, "Beaver Valley Unit 2 480 Emergency Bus Undervoltage-Degraded Voltage", 10/99.

- 10080-DEC-0215, Revision 0, "Beaver Valley Unit 2 4.1KV Emergency Bus Undervoltage: Trip Feed and Start Diesel Uncertainty Calculations", 2/00.

- 8700-DEC-0212, Revision 0, "Beaver Valley Unit 1 4.1KV Emergency Bus Undervoltage: Trip Feed and Start Diesel Uncertainty Calculations", 2/00.

Table 1 – Tech Spec Functions Evaluated for Calibration Period Extension

Unit 1

TS 3/4.3.1, Reactor Trip System, Table 4.3-1

Functional Unit 15 – Undervoltage Reactor Coolant Pumps
Functional Unit 16 – Underfrequency Reactor Coolant Pumps

TS 3/4.3.2, ESFAS, Table 4.3-2

Functional Unit 6.a.1 – 4.16kv Emergency Bus Undervoltage (Trip Feed)
Functional Unit 6.a.2 – 4.16kv Emergency Bus Undervoltage (Start Diesel)
Functional Unit 6.b - 4.16kv Emergency Bus Undervoltage (Degraded Voltage)
Functional Unit 6.c – 480v Emergency Bus Undervoltage (Degraded Voltage)
Functional Unit 7.b - Undervoltage Reactor Coolant Pump

Unit 2

TS 3/4.3.1, Reactor Trip System, Table 4.3-1

Functional Unit 15 – Undervoltage Reactor Coolant Pumps > P7
Functional Unit 16 – Underfrequency Reactor Coolant Pumps > P7

TS 3/4.3.2, ESFAS, Table 4.3-2

Functional Unit 6.a.1 – 4.16kv Emergency Bus Undervoltage (Trip Feed)
Functional Unit 6.a.2 – 4.16kv Emergency Bus Undervoltage (Start Diesel)
Functional Unit 6.b - 4.16kv Emergency Bus Undervoltage (Degraded Voltage)
Functional Unit 6.c – 480v Emergency Bus Undervoltage (Degraded Voltage)
Functional Unit 7.c - Undervoltage Reactor Coolant Pump (Start AFW TD Pump)

Table 2 – Results of Margin Evaluation

Function	Setpoint (in VAC or Hz)	Col. 1 New Drift Value (in % of setpoint)	Col. 2 New Drift Value (in VAC or Hz.) (Note 1)	Col. 3 Wstghse. Drift Value (in VAC or Hz.) (Note 2)	Current Margin (% of Span or Hz.) (Note 3)	Effect on Margin (% of Span or Hz.) (Note 3)	Calc Number
U1 480V Bus Degraded Grid UV	112.5	0.22	0.25	0.24	0.45	NEGLIGIBLE	8700-DEC-0150, R0
U1 4kV Bus Degraded Grid UV	111.4	0.24	0.27	0.36	0.26	>0.26	8700-DEC-0149, R0
U1 4kV Bus EDG Start UV	90	2.16	1.94	4.5 *	N/A	N/A	8700-DEC-0212, R0
U1 4kV Bus Trip Feed UV	90	1.96	1.76	4.5 *	N/A	N/A	8700-DEC-0212, R0
U1 4kV Bus RCP UV	90	0.76	0.68	4.5 *	N/A	N/A	8700-DEC-0211, R0
U1 4kV Bus RCP UF	58 Hz	0.08	0.046 Hz	0.08 Hz *	0.4 Hz	>0.4 Hz	8700-DEC-0211, R0
U2 480V Bus Degraded Grid UV	112.1	0.16	0.18	0.24	0.59	>0.59	10080-DEC-0212, R0
U2 4kV Bus Degraded Grid UV	111.1	0.62	0.69	0.24	0.59	0.34	10080-DEC-0211, R0 **
U2 4kV Bus EDG Start UV	90	1.64	1.48	4.5 *	N/A	N/A	10080-DEC-0215, R0
U2 4kV Bus Trip Feed UV	90	1.42	1.28	4.5 *	N/A	N/A	10080-DEC-0215, R0
U2 4kV Bus RCP UV	90	3.21	2.89	4.5 *	N/A	N/A	10080-DEC-0214, R0
U2 4kV Bus RCP UF	58 Hz	0.05	0.03 Hz	0.05 Hz *	0.43 Hz	>0.43 Hz	10080-DEC-0214, R0

*Allowable Value is based on Drift Value

** Calc 10080-DEC-0211 will be updated

Notes: 1) Col. 2 = Col. 1 x Setpoint
2) Col. 3 = Westinghouse drift value found in referenced calc. times span for undervoltage relays
Col. 3 = drift in Hz for underfrequency relays
3) Span = 120V for 480V relays
Span = 118.9 for 4.16KV relays

BEAVER VALLEY POWER STATION

A1.003AM
TER No. 13477
Revision No. 0
Page No. 10

TECHNICAL EVALUATION PROGRAMS IMPACT

Does this TER affect any component listed on the AEL? ■ YES ☐ NO
If yes, complete AEL update sheets or screen prints for the affected components showing the changes from the implementation of this TER. AEL updates are to be attached separately to the TER package [i.e., not be numbered with TER]. The AEL update sheets or screen prints for the affected components shall agree with the listing of EINs on the TER Summary Sheet Section C. The RE or TER Administrator shall forward AEL Sheets to the Supervisor, Design Basis and Assurance or AEL Engineer after the TER is approved or implemented, as applicable.[5.20 (CA 970336 03)]

Does this TER change the Non-CPE List? ☐ YES ■ NO
If yes, complete Non-CPE List Update Sheet (Figure 6.14) for the affected structure, system or component and attach to the TER package. The RE or TER Administrator shall forward a copy to the Supervisor, Design Basis and Assurance or AEL Engineer after the TER is approved.

Does the result of this TER affect the Updated Fire Protection Appendix R Review/Fire Protection Safe Shutdown Report? ☐ YES ■ NO
If the TER is approving a modification, including an equipment retirement in place, have the Fire Protection Appendix R Coordinator review this TER. Design Equivalent Changes which do not add combustible material do not require review by the Fire Protection Appendix R Coordinator. If this TER affects either the Updated Fire Protection Appendix R Review Report or the Fire Protection Safe Shutdown Report, complete a Fire Protection Review Checklist (NEAP 2.15, Figure 6.2), and make it an attachment to this evaluation.
BASIS:

N/A
Fire Protection Appendix R Coordinator

Does the TER create new calculations or affect existing calculations? ■ YES ☐ NO
If yes, list the calculation number[s] and design verification number[s], when applicable, as an item[s] to be updated on the Summary Sheet and / or Notification Sheet, as applicable.[5.20 (CA 970336-03)]

Is there any impact to the design basis of the current or proposed core design analysis as reflected in the applicable Reload Safety & Licensing Checklist (Ref.: NEAP 2.29)? ☐ YES ■ NO
If yes or uncertain, have the Nuclear Fuel Section representative sign off on TER[5.21].
BASIS:

N/A
Nuclear Fuel Section Representative

Human Factors Considerations? ☐ YES ■ NO
If yes, complete NEAP 2.16 Figure 6.2.

Effect on Equipment Under State Jurisdiction? ☐ YES ■ NO
If yes, comply with ES-M-23.

BEAVER VALLEY POWER STATION

A1.003AM
TER No. 13477
Revision No. 0
Page No. 11

TECHNICAL EVALUATION PROGRAMS IMPACT

Hazards Analysis Criteria Considerations? (BV-2 only) If yes, complete analysis per ES-N-12 and make it an attachment to this evaluation.	☐ YES	■ NO	☐ N/A
Influence on Active Temporary Modifications or DCPs on affected systems? If yes, ensure each item is reviewed for impact and explain on Summary Sheet.	☐ YES	■ NO	
Impact to VOND? If yes, generate VCN per NPDAP 7.11 and list the document number on the Summary Sheet or Notification Sheet.	☐ YES	■ NO	
Is a UFSAR change required? If yes, assure the TER is presented to the OSC per NPDAP 8.18. Process the UFSAR change in accordance with NPDAP 7.3.	☐ YES	■ NO	
Impact to Plant Technical Specifications? If yes, comply with NPDAP 7.1.	☐ YES	■ NO	
This TER provides the basis for a Tech Spec change but will not actually implement the change. Licensing is required to prepare the appropriate LAR to implement this change.			
Are any Stock Item requirements (i.e., part numbers, documentation, shelf life, storage maintenance, receipt inspection notification requirements, etc.) for a component/part added or changed? If yes, notify Procurement Engineering via an EM.	☐ YES	☐ NO	■ N/A
Can any stock bought to the existing stock description be used until depletion? *If no, notify Procurement Control via an EM.*	☐ YES	☐ NO	■ N/A
Is a component being replaced in its entirety? If yes, complete a Spare Parts List (SPL) per NEAP 3.7 and attach separately to the package (i.e., not be numbered with TER) so the TER Administrator can issue the SPL to Plant Maintenance after notification of installation.[5.20 (CA 97-0336-03)]	☐ YES	☐ NO	■ N/A
Does the 10 CFR 50.59 Applicability Determination form require the performance of a 10 CFR 50.59 Evaluation? If yes, perform a 10 CFR 50.59 Evaluation and make it an attachment to this TER. Assure the TER is presented to the OSC per NPDAP 8.18.	☐ YES	■ NO	

BEAVER VALLEY POWER STATION

A1.003AM
TER No. 13477
Revision No. 0
Page No. 12

TECHNICAL EVALUATION PROGRAMS IMPACT

Is there any Impact to the Design Basis Document? ☐ YES ■ NO
If yes, initiate a DBD update using a DBD Revision Request (See ES-A-004) and list the document number on the Summary Sheet or Notification Sheet.

Does this TER affect scheduled cables or raceways? ☐ YES ■ NO
If yes, the PDMS database is impacted. Ensure the appropriate tickets are issued in accordance with NED-SI-E001.

Does the TER affect the Risk Maintenance Rule Programs? (Apply the screening criteria for risk significant items specified in NPDAP 7.6, Attachment 1.) ☐ YES ■ NO
If yes or uncertain, have the Supervisor, Engineering Analysis, review the TER and document the basis for acceptance and sign below.
BASIS:This TER provides the basis to extend the Tech Spec surveillances but does not authorize the Tech Spec change.

Are any QA Category 1 fluid system design basis calculations affected by the proposed modification? ☐ YES ■ NO
If yes, have the Supervisor, Engineering Analysis review this TER, document the basis for acceptance and sign below. Revise the calculation[s] and list the calculation number[s] and design verification number[s], when applicable, as an item[s] to be updated on the Summary Sheet and / or Notification Sheet, as applicable.[5.20 (CA 970336-01)]
BASIS:

Does this TER affect QA Category 1 or seismic piping? ☐ YES ■ NO
If yes, have the Supervisor, Engineering Analysis review this TER, document the basis for acceptance and sign below. Revise the calculation[s] and list the calculation number[s] to be updated on the Summary Sheet and / or Notification Sheet, as applicable.[5.20 (CA 970336-03)]

BASIS:

N/A
Supervisor, Engineering Analysis

BEAVER VALLEY POWER STATION

A1.003AM
TER No. 13477
Revision No. 0
Page No. 13

TECHNICAL EVALUATION PROGRAMS IMPACT

Considering the Electrical Calculation Program, does the result of this TER affect any of the following:

a) Equipment listed as Station Blackout Equipment on the AEL?	☐ YES	■ NO
b) A substitute mechanical component or component modification which changes the brake horsepower (BHP) required of the associated motor?	☐ YES	■ NO
c) Any removed, added, retired or substitute electrical component?	☐ YES	■ NO
d) A revision to an electrical calculation? (e.g., equipment identification change, model number change, power requirement change or wiring change affecting circuit length.)	☐ YES	■ NO

If question "a" above was answered yes, have the Electrical Calculation Coordinator review this TER, document the basis for acceptance and sign below.

If questions "b," "c," or "d" above are answered yes, complete and forward an Electrical Calculation Evaluation Form (See NED-SI-E003) to the Electrical Calculation Coordinator to evaluate the acceptability of the change prior to completing this TER. If acceptable, document the basis for acceptance and sign below.

BASIS:

N/A

Electrical Calculation Coordinator

BEAVER VALLEY POWER STATION

A1.003AM
TER No. 13477
Revision No. 0
Page No. 14

TECHNICAL EVALUATION PROGRAMS IMPACT

BASIS:

Does the result of this TER approve any of the following:

a) **A modification to a concrete block wall (e.g., core drilling, load additions)?** ☐ YES ■ NO
If yes, revise the calculation and list the calculation number as an item to be updated on the Summary Sheet and / or Notification Sheet as applicable.

b) **The addition or removal of Zinc or Aluminum inside the Reactor Containment Building?** ☐ YES ■ NO
If yes, comply with ES-G-017. Attach completed Zinc/Aluminum Inventory in Reactor Containment Increase Request from ES-G-017 to the TER.

c) **A change involving equipment that is seismically qualified or mounted?** ☐ YES ■ NO

d) **Are any area heating/cooling loads or air diffusion affected?** ☐ YES ■ NO
If any of the above questions are answered yes, have the Supervisor, Structural/Facilities review this TER, document the basis for acceptance and sign below.
BASIS:

N/A
Supervisor, Structural/Facilities

Is the item being evaluated listed as Environmentally Qualified on the AEL? ☐ YES ■ NO
If yes, have the Supervisor, Design Basis and Assurance or EQ Engineer review this TER, document the basis for acceptance and sign below.
BASIS:

N/A
Supervisor, Design Basis and Assurance or EQ Engr.

Does the TER affect the ISI/IST Program? ☐ YES ■ NO
If yes or uncertain, have the Supervisor, ISI/IST and Maintenance Rule review this TER, document the basis for acceptance and sign below.
BASIS:

N/A
Supervisor, ISI/IST and Maintenance Rule

BEAVER VALLEY POWER STATION

A1.003AM
TER No. 13477
Revision No. 0
Page No. 15

TECHNICAL EVALUATION PROGRAMS IMPACT

Does this TER affect any equipment that contains a microprocessor or is any software involved?
If yes, this hardware and/or software must be Year 2000 Compliant or Year 2000 Ready. Ensure this is noted in the TER and included in any purchase orders or requisitions. Have the Supervisor, Information Services review this TER, document the basis for acceptance and sign below.
BASIS:

☐ YES ■ NO

Does this TER affect any instrument that is associated with a Plant Process Computer Point?
If yes, have the Supervisor, Information Services review this TER.[5.28]
BASIS:

☐ YES ■ NO

N/A
Supervisor, Information Services

Does this TER affect a QA Category 1 motor operated valve component [i.e., valve, operator, mechanical unit (e.g., gearbox), or motor] through a change in available voltage, internal pressures, flows, or physical loading?
If yes, have the Supervisor, Mechanical/Components Support review this TER, document the basis for acceptance and sign below. Revise the calculation[s] and list the calculation number[s] and design verification number[s], when applicable, as an item[s] to be updated on the Summary Sheet and / or Notification Sheet, as applicable.[5.20 (CA 970136 03)]
BASIS:

☐ YES ■ NO

Does this TER affect a Component/Part which contains Cobalt (i.e., Stellite) and is in the Cobalt Reduction Program or is in a system that normal flow leads to the Reactor Coolant System (RCS)?

If yes, have the Supervisor, Mechanical/Components Support review this TER, document the basis for acceptance and sign below.
BASIS:

☐ YES ■ NO

N/A
Supervisor, Mechanical/Components Support

Does this TER affect, modify or change plant instrumentation?
If yes, have the Supervisor, Electrical/I&C Support review this TER, document the basis for acceptance and sign below.
BASIS:

☐ YES ■ NO

N/A
Supervisor, Electrical/I&C Support

10 CFR 50.59 Applicability Determination

Subject or Procedure No.: TER 13477 Rev. 0 ☐ 1, ☐ 2, ■ 1/2

TITLE: Evaluation for Extension of Selected RPS and ESFAS Tech Spec Channel Functional Test from Monthly to Quarterly

Reason and/or Description of Change (include references, if applicable):

This TER provides the basis to allow the monthly surveillance requirements of selected RPS and ESFAS Tech Spec functions to be extended to quarterly calibrations.

1. Does the activity require a change to the Technical Specifications? (If yes, prepare a License Amendment Request in accordance with NPDAP 7.1.) ☐ YES ■ NO
2. Is the change covered by another NRC or non-NRC regulation or License Requirement? (If yes, follow the appropriate change control process) ☐ YES ■ NO
3. Does the change affect the facility as described in the UFSAR or Environmental Report? Such as: ☐ YES ■ NO
   a) The Design, Function, or Method of performing the function of a structure, system, or component (SSC) described by text, or drawing in UFSAR or other information relied upon by the NRC for BVPS License is changed.
   b) A Radwaste System is involved.
   c) Plant or equipment environmental qualifications are affected.
   d) The performance of an SSC is affected due to a change in a subcomponent of the SSC or other non-safety related component.
4. Is a procedure described in the UFSAR or Environmental Report changed? Such as: ☐ YES ■ NO
   a) The plant will be in a condition where it functions differently than described in the UFSAR. (Includes Admin. Controls of UFSAR)
   b) Equipment will be removed from service longer than outage times justified in the UFSAR. (both Tech. Spec. and non-Tech. Spec. Items)
5. Is a test or experiment not described in the UFSAR involved? Such as: ☐ YES ■ NO
   a) Operable UFSAR SSC or subcomponents will have reduced adequacy to perform its functions as described in the UFSAR for prevention or mitigation of accident conditions.

If any answer to items 3, 4, or 5 is answered "yes", a 10 CFR 50.59 Evaluation is required.

If all the above questions are answered "no", provide the bases for the change meeting or exceeding the original intent or design requirements, thereby assuring that consequences, malfunctions, and probabilities of accidents and malfunctions described in the UFSAR are not changed:

BASES: This TER provides the basis for a Tech Spec change but will not actually implement the change. Licensing is required to prepare the appropriate LAR to implement this change.

10080-DEC-0222, Revision 0, "Beaver Valley Units 1 and 2 Drift Evaluation Results for RTS/ESFAS Relay Instrumentation" provides the engineering basis for this change.

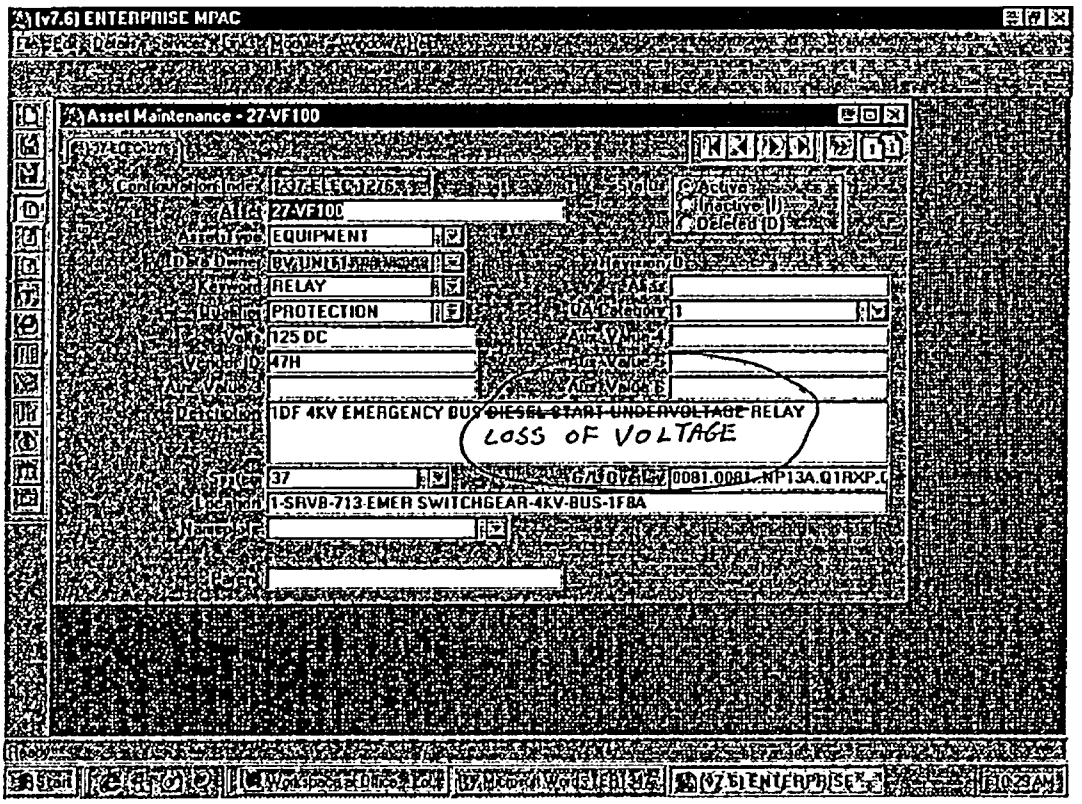
List applicable documents/sections used to answer checklist.

TECH. SPEC. SECTION(S): ¾.3.1 and ¾.3.2; Table 4.3-1 and 4.3-2

UFSAR SECTION(S): Section 8.0, "Electric Power"

OTHER DESIGN BASIS DOCUMENT OR REGULATORY COMMITMENT: N/A

PREPARED BY:	DATE:	REVIEWED BY:	DATE:
Wayne D. Lobue	10/16/00	Carol F. Ciocco	10/16/00


[v7.6] ENTERPRISE MPAC
Asset Maintenance - 27-VF100
27-VF100
EQUIPMENT
RELAY
PROTECTION
125 DC
47H
1DF 4KV EMERGENCY BUS ~~DIESEL START UNDERVOLTAGE~~ RELAY
LOSS OF VOLTAGE
37
1-SRVB-713-EMER SWITCHGEAR-4KV-BUS-1F8A

TER 13477