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16.8 ELECTRIC POWER SYSTEM

16.8.4 Keowee Operational Restrictions

COMMITMENT Keowee station output, and the combination of Keowee lake level and operating tailrace level shall be within the limits specified in the applicable Figures 16.8.4-1, 16.8.4-2, 16.8.4-3 and 16.8.4-4.

APPLICABILITY: Modes 1, 2, 3 and 4, during periods of commercial power generation by one or both Keowee Hydro Units (KHUs).

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Keowee station output not within limit. <u>OR</u> Combination of Keowee lake level and operating tailrace level not within limits.	A.1 Enter applicable ITS Condition(s) and Required Actions for inoperable KHU(s),	Immediately
	<u>AND</u> A.2 Initiate action to restore within limits.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 16.8.4.1 Verify combination of Keowee station output, Keowee lake level and operating tailrace level is within limits for the acceptable operating area specified in the applicable Figures 16.8.4-1, 16.8.4-2, 16.8.4-3 and 16.8.4-4.	During commercial generation

Figure 16.8.4-1
Keowee Operational Restrictions

Unit 1 ONLY 84 Mw

Keowee Operating Chart

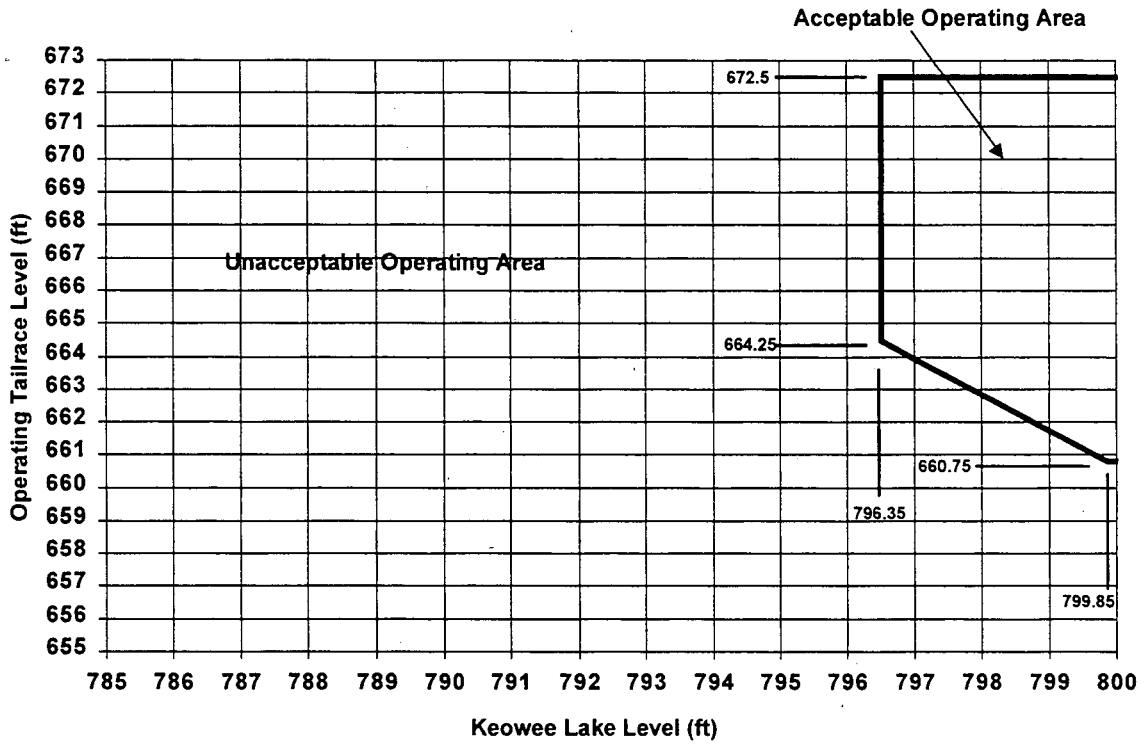


Figure 16.8.4-2
Keowee Operational Restrictions

Unit 2 ONLY 84 Mw

Keowee Operating Chart

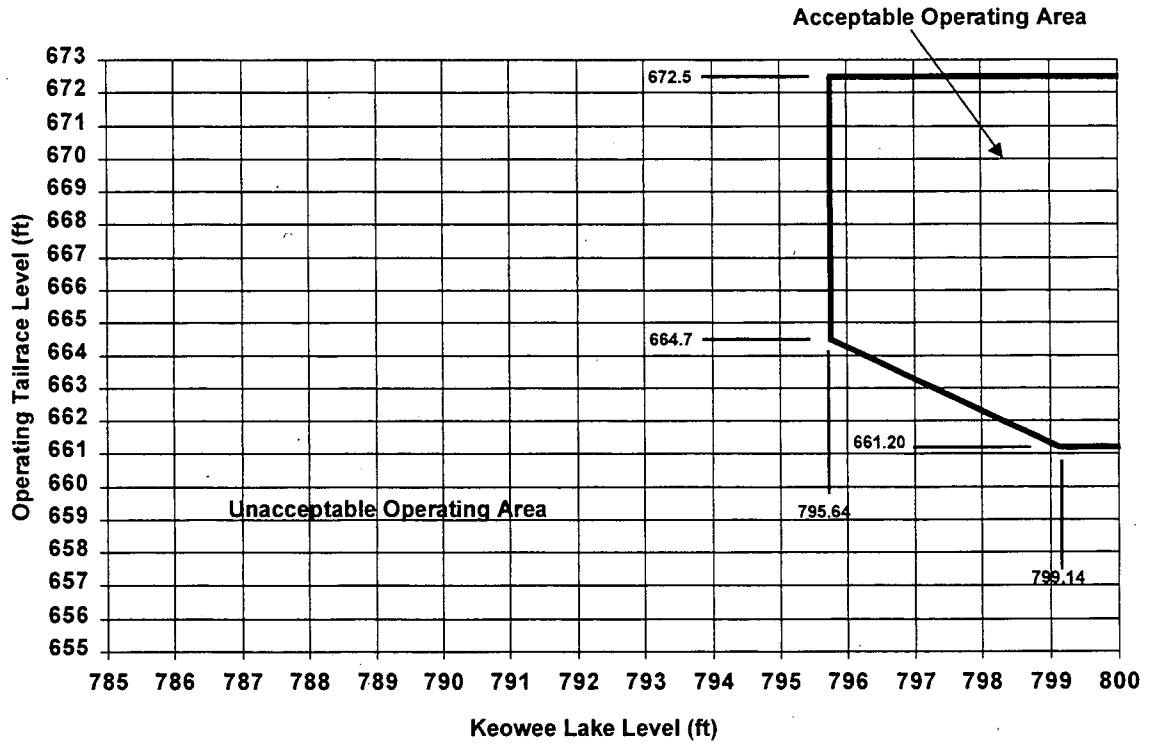


Figure 16.8.4-3
Keowee Operational Restrictions

2 Units 74 Mw

Keowee Operating Chart

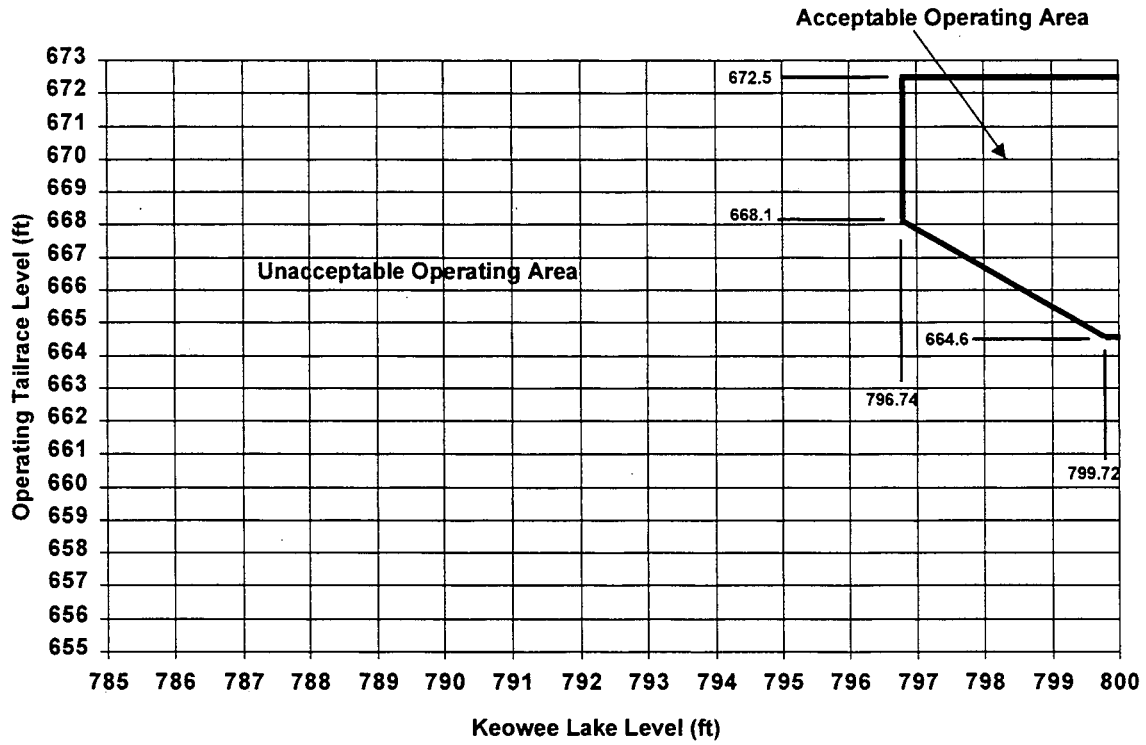
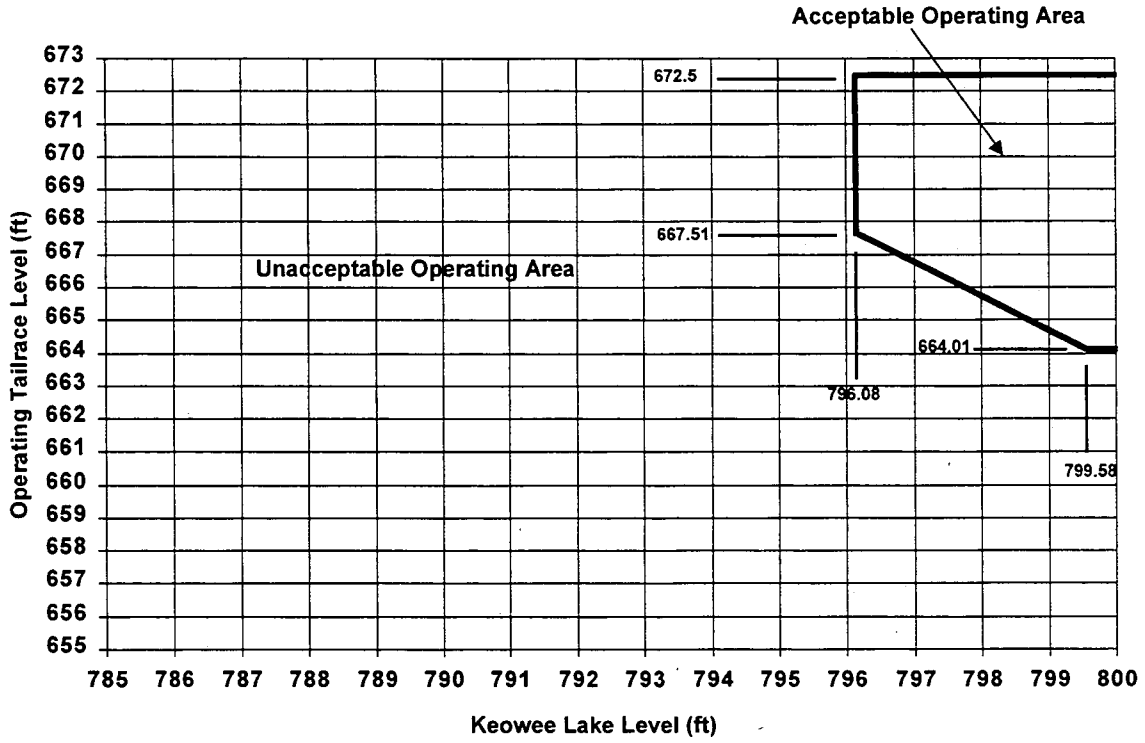


Figure 16.8.4-4
Keowee Operational Restrictions

2 Units 64 Mw

Keowee Operating Chart



BACKGROUND

Portions of this SLC are relocated from CTS 3.7.1 TS Note 3.

During periods of commercial power generation, the operability of the Keowee Hydro units shall be based on lake levels and the power level of the Keowee Hydro units. The Keowee Hydro operating restrictions for commercial power generation shall be contained in the ONS Selected Licensee Commitment manual.

This SLC is used to determine Keowee Hydro unit operability as an Oconee Emergency Power source when Keowee is generating to the commercial grid. It specifies the range of acceptable Keowee lake and tailrace elevations for various Keowee power generation levels. The acceptable region of the operating restrictions was determined by reference 1.

Figure 16.8.4-1 specifies the maximum operating limits of the Keowee Hydro units. This is applicable only for single unit operation of Keowee unit 1. This refers to occasions when Keowee unit 1 is operating and Keowee unit 2 is not operating. This figure allows for operation of Keowee Hydro unit 1 at a maximum of 84MW. Also, any operation of Keowee Hydro unit 1 below 84MW is allowed in accordance with this figure.

Figure 16.8.4-2 is applicable only for single unit operation of Keowee unit 2. This refers to occasions when Keowee unit 2 is operating and Keowee unit 1 is not operating. This figure allows for operation of Keowee Hydro unit 2 at a maximum of 84 MW. Also, any operation of Keowee Hydro unit 2 below 84 MW is allowed in accordance with this figure.

Figures 16.8.4-3 and 16.8.4-4 apply to simultaneous commercial generation with both Keowee units. In addition, the figures apply to single unit operation of Keowee unit 1 or 2. In Figure 16.8.4-3, commercial generation is allowed up to a maximum of 74MW. Figure 16.8.4-4 contains the operating restrictions for commercial generation up to a maximum of 64MW. The lake levels on the operating charts are operating lake levels. Therefore, verification that the operation of the Keowee Hydro units is within the acceptable region of the charts will have to be performed during operation of the Keowee Hydro units.

APPLICABLE SAFETY ANALYSIS

The Keowee Hydro units provide emergency power for Oconee Nuclear Station on the appropriate emergency power path. The operability of the Keowee Hydro units is required to ensure the operability and the capability of the Emergency Power System. Nuclear Station Modification (NSM) ON-52966 installed frequency protection and revised the runaway governor protection logic circuits which ensure the operability of the Keowee Hydro units during periods of commercial generation. This SLC will ensure that the Keowee Hydro units are operated within the acceptable limits.

APPLICABILITY

During periods of commercial power generation, the Keowee Hydro units are required to be within the acceptable regions of the operating restrictions when one or more Oconee Nuclear units are in MODES 1, 2, 3 or 4.

ACTIONS

The operability of the Keowee Hydro units during periods of commercial generation is ensured when the Keowee Hydro units operate within the acceptable region of Figures 16.8.4-1, 16.8.4-2, 16.8.4-3 and 16.8.4-4.

A.1

If the Keowee Hydro units are determined to be outside the limits of the acceptable region, action will be taken to restore commercial generation of the Keowee Hydro units to within the limits of the acceptable region. In addition, the applicable ITS Condition shall be entered since the Keowee Hydro Unit may not be able to perform its design function. Once the commercial operation of the Keowee Hydro unit(s) is restored to within the limits of the acceptable region, the ITS Condition shall be exited. It is not necessary to perform an operability test of Keowee Hydro units prior to exiting the Condition as long as no maintenance is performed on the units in order to return them to an acceptable operating region.

SURVEILLANCE REQUIREMENTS

SR 16.8.4.1

This surveillance will ensure that the operating conditions are within the limits of the acceptable region of the operating restrictions in Figures 16.8.4-1, 16.8.4-2, 16.8.4-3 and 16.8.4-4 during commercial generation by the Keowee Hydro units. Since the lake levels in Figures 16.8.4-1, 16.8.4-2, 16.8.4-3 and 16.8.4-4 are operating lake levels, verification that the operation of the Keowee Hydro units is within the acceptable regions will be performed during operation of the Keowee Hydro units.

REFERENCES:

1. Calculation KC-UNIT1-2-0106
2. 04/19/95 letter from J. W. Hampton to the NRC, "Response to NRC Questions on the Proposed Emergency Power Modification Action Plan."
3. 03/15/95 letter from J. W. Hampton to the NRC, "Proposed Emergency Power Modification Action Plan."
4. 08/15/95 letter from the NRC to J. W. Hampton, "Issuance of Amendments."
5. 03/20/97 Safety Evaluation Report from the NRC to add OPERABILITY requirements and surveillances to the Technical Specifications.