



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NOV 01 1984

Docket Nos.: 50-445
and 50-446

Mr. M. D. Spence
President
Texas Utilities Generating Company
400 N. Olive Street
L. B. 81
Dallas, Texas 75201

Dear Mr. Spence:

Subject: Transmittal of NRC Staff Evaluation Findings Pertaining to the
N-16 Transit Time Flow Meters Installed at Comanche Peak Steam
Electric Station (Units 1 and 2)

Enclosed are the NRC staff's findings relative to the N-16 Transit Time Flow Meter (N-16 flowmeter) installed in Comanche Peak, Units 1 and 2, which we propose to incorporate in a future SER supplement. The enclosed evaluation findings are predicated on the NRC staff's review of information provided by TUGCO and Westinghouse that are referenced in the enclosed report, and during meetings held between the NRC staff, its consultants, TUGCO and Westinghouse, the most recent meeting held on October 11, 1984.

The salient arguments which Westinghouse has presented in support of the claimed volumetric accuracy of the N-16 flowmeter (that is $\pm 1.5\%$) were that: (a) the N-16 flowmeter system has been calibrated at the Prairie Island 2 Nuclear Plant with a leading edge flowmeter accuracy of $+0.65\%$ and -0.67% , and (b) the accuracy of the system installed at Comanche Peak depends only on the accuracy with which the hot leg pipe diameter is known, and on the accuracy of the mechanical components of the flowmeter detection system. While TUGCO and Westinghouse have provided relevant data and analyses for the claimed accuracy of the N-16 flowmeters, no Comanche Peak plant-specific data exists upon which the NRC staff can accept the accuracy claimed and proposed for inclusion in the Comanche Peak Technical Specifications. On the basis of its review of the information made available by TUGCO and Westinghouse to date, the staff has concluded that a reasonably conservative accuracy value for the Comanche Peak N-16 flowmeter should be $\pm 2\%$. However, the staff is open to reconsider this accuracy value should the Comanche Peak N-16 flowmeter performance data later indicate that a greater accuracy is attainable. Accordingly, the $\pm 2\%$ accuracy value will be required for inclusion in the Comanche Peak Technical Specification for the N-16 flowmeter.

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At the October 11, 1984 meeting, your staff agreed to submit detailed Comanche Peak N-16 flowmeter performance data during the first cycle of Unit 1 operation, to supplement the data currently available to the NRC staff. However, in order for this matter to be sufficiently resolved for Unit 1 licensing, it is required that TUGCO formally commit to provide the Comanche Peak N-16 flowmeter performance data as agreed to at the October 11, 1984 meeting, and that this commitment be documented in a FSAR amendment prior to Unit 1 licensing.

Sincerely,

ORIG./REAL SIGNED BY:

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Enclosure: As stated

cc: See next page

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NSIC

PRC System

LB#1 R/F

JStefano

SBurwell

MRushbrook

LRubenstein

CBerlinger

LPhillips

HBalukjian

LLois

VNoonan

LB#1:DL
JStefano:kab
10/25/84

CPB:DSI
LPhillips
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LB#1:DL
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10/1/84

COMANCHE PEAK

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COMANCHE PEAK

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