677

Dated: April 1, 1986

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

before the

ATOMIC SAFETY AND LICENSING BOARD

In the Matter of TEXAS UTILITIES GENERATING COMPANY et al. (Comanche Peak Steam Electric Station, Units 1 and 2)	Docket Nos. 50-445 OL 50-446 (Application for an Operating License)

APPLICANTS' Supplement to MEMORANDUM IN RESPONSE TO BOARD'S MEMORANDUM
(Statistical Inferences from CPRT Sampling)

On January 31, 1986, the Applicants filed and served the "Memorandum in Response to Board's Memorandum (Statistical Inferences from CPRT Sampling)" ("Applicants' Response"). Based on discussions with the NRC Staff on the topics covered therein, the Applicants now provide the within clarifications and corrections to that response.

DS03

1. Footnote 1 (pages 5-6) was intended to distinguish statistical analyses contained in the ISAPs from testing hypotheses regarding the mean values of parametric distributions. Rather, the CPRT is focusing on population extremes. The term "tolerance limits," however, may have been used in a technically inaccurate fashion in the note. CPRT's examination of population extremes is accomplished by confidence limits (or probability intervals) as discussed in the Applicants' Response and in Appendix D of the Program Plan. Although there are similarities between tolerance limits and confidence limits they are different in that the interval defined by the confidence limit is thought to contain the unknown parameter value (i.e., the population deficiency rate) and the interval defined by the tolerance limit is thought to contain a prescribed proportion of the population.

2. In clarification of the hypothesis test statement on page 9 of Applicants' Response, an equivalent (and perhaps more conventional) statement of the hypothesis test would have the null hypothesis state that the population deficiency rate is equal to or greater than 5 percent. The alternative hypothesis

is that the percentage of deficient items in the population is less than 5 percent. The level of significance would be 0.05. The test statistic would be the number of deficient items found in an initial sample, and the critical region would be zero deficient items observed in the sample. It is important to point out that in both cases the "consumer risk" of not detecting programmatic problems, if they exist, is the same. It should further be noted that the Critical Region column of Table 1 of Attachment 1 to Appendix D is consistent with the hypothesis test described in Applicants' Response to the Board.

3. It should also be clarified that, although no specific ISAP or DSAP calls for the use of parametric tolerance limits, Attachment 2 to Appendix D is intended to be used if needed to evaluate deviation trends in numerically valued quality characteristics (attributes). It is not a CPRT requirement that such deviation trends be evaluated in this manner, but in some cases it may be a useful tool in evaluating the adversity of a trend. To date, this tool has been used in only one ISAP (i.e., V.a Skewed Welds) to evaluate a trend of weld stress margins. It is not known at this

time which, if any, other ISAPs or DSAPs will employ this tool. Table 2 of Attachment 2 lists tolerance factors for various tolerance limits (i.e., ninety-nine, ninety-five, ninety, and fifty percent), but the tolerance level (confidence) in all cases is 95 percent. Table 2 is intended for use in a variety of potential applications. Therefore, if and when tolerance limits are to be used to evaluate deviation trends, the criterion used to judge adversity will be set on a case-by-case basis.

4. The citation in footnote 1 on page 6 should be "Id. at 407."

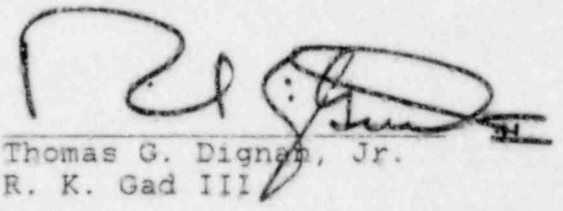
Respectfully submitted,

Robert A. Wooldridge
Worsham, Forsythe, Sampels & Wooldridge
2001 Bryan Tower - Suite 3200
Dallas, Texas 75201
Telephone: (214) 979-3000

Nicholas S. Reynolds
William A. Horin
Bishop, Liberman, Cook, Purcell & Reynolds
1200 Seventeenth Street, N.W.
Suite 700
Washington, D.C. 20036
Telephone: (202) 857-9800

Roy P. Lessy, Jr.
Morgan, Lewis & Bockius
1800 M Street, N.W.
Washington, D.C. 20036
Telephone: (202)872-5000

Thomas G. Dignan, Jr.
R. K. Gad III
Ropes & Gray
225 Franklin Street
Boston, Massachusetts 02110
Telephone: (617) 423-6100

By 
Thomas G. Dignan, Jr.
R. K. Gad III

Dated: April 1, 1986.

CERTIFICATE OF SERVICE

I, Robert K. Gad III, one of the attorneys for the Applicants herein, hereby certify that on April 1, 1986, I made service of the within "APPLICANTS' Supplement to MEMORANDUM IN RESPONSE TO BOARD'S MEMORANDUM (Statistical Inference from CPRT Sampling)," by mailing copies thereof, postage prepaid, to:

Peter B. Bloch, Esquire
Chairman
Administrative Judge
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dr. Walter H. Jordan
Administrative Judge
881 W. Outer Drive
Oak Ridge, Tennessee 37830

Chairman
Atomic Safety and Licensing Appeal Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Stuart A. Treby, Esquire
Office of the Executive Legal Director
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. James E. Cummins
Resident Inspector
Comanche Peak S.E.S.
c/o U.S. Nuclear Regulatory Commission
P.O. Box 38
Glen Rose, Texas 76043

Mr. William L. Clements
Docketing & Services Branch
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Chairman
Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mrs. Juanita Ellis
President, CASE
1426 S. Polk Street
Dallas, Texas 75224

Renea Hicks, Esquire
Assistant Attorney General
Environmental Protection Division
P.O. Box 12548, Capitol Station
Austin, Texas 78711

Ellen Ginsberg, Esquire
Atomic Safety and Licensing
Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Anthony Roisman, Esquire
Executive Director
Trial Lawyers for Public Justice
2000 P Street, N.W., Suite 611
Washington, D.C. 20036

Joseph Gallo, Esquire
Isham, Lincoln & Beale
1120 Connecticut Avenue, N.W.
Suite 840
Washington, D.C. 20036

Dr. Kenneth A. McCollom
Administrative Judge
Dean, Division of Engineering,
Architecture and Technology
Oklahoma State University
Stillwater, Oklahoma 74078

Mr. Lanny A. Sinkin
Christic Institute
1324 North Capitol Street
Washington, D.C. 20002

Ms. Billie Pirner Garde
Citizens Clinic Director
Government Accountability Project
1901 Que Street, N.W.
Washington, D.C. 20009

Mr. Robert D. Martin
Regional Administrator,
Region IV
U.S. Nuclear Regulatory Commission
Suite 1000
611 Ryan Plaza Drive
Arlington, Texas 76011

Elizabeth B. Johnson
Administrative Judge
Oak Ridge National Laboratory
P.O. Box X, Building 3500
Oak Ridge, Tennessee 37830

Geary S. Mizuno, Esquire
Office of the Executive
Legal Director
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Nancy Williams
Cygna Energy Services, Inc.
101 California Street
Suite 1000
San Francisco, California 94111

R. K. Gad III (aip)
Robert K. Gad III