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DEC 12 1977

MEMORANDUM FOR: John F. Stolz, Chief
Light Water Reactors Branch #1, DPM

FROM: L. G. Hulman, Chief
Hydrology-Meteorology Branch, DSE

SUBJECT: DIABLO CANYON METEOROLOGICAL MEASUREMENTS PROGRAM

We have reviewed the information provided by Pacific Gas and Electric Company (letter Crane to Stolz, 10/18/77) concerning the format and type of meteorological data to be displayed in the control room at the Diablo Canyon plant.

PG&E will provide calculated centerline relative concentration (X/Q) values and lateral cloud dimensions as well as 30-minute average values of wind speed, wind direction, and atmospheric stability. PG&E has proposed a change in the determination of atmospheric stability to be used for calculation of centerline X/Q values from that originally proposed in the FSAR. This proposed change will allow PG&E to discontinue the use of bivane-type sensors and to display only one calculated X/Q value in the control room instead of the two values that were to be displayed.

We accept PG&E's proposal (as discussed in the 10/18/77 letter) to calculate centerline X/Q values based on horizontal fluctuations of wind direction when winds are not less than 1.5m/sec at the 10m level for determination of the horizontal spread of the effluent plume, and based on vertical temperature gradient for determination of the vertical spread of the effluent plume for all wind speeds and for determination of horizontal spread when wind speeds are less than 1.5m/sec at the 10m level. We also accept the incorporation of a "meander term" to reflect increased lateral dispersion during stable atmospheric conditions accompanied by light wind speeds (i.e., less than 2m/sec), if the term is used as specified in Regulatory Guide 1.100, "Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants," a copy of which is enclosed.

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NOV 19 1954
U.S. DEPARTMENT OF STATE
WASHINGTON, D.C.

DEC 1 8 1954

TO: DIRECTOR, FBI (100-371101)
FROM: SAC, NEW YORK (100-100000)

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DEC 12 1977

John F. Stolz

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Our previous SER input (see memo Denton to DeYoung, 4/14/75) will have to be modified to reflect the change in control room display of X/Q values. Please identify a date by which this information should be provided to you for inclusion in the Diablo Canyon SER or supplement thereto.

Original Signed by
L. G. Hulman

L. G. Hulman, Chief
Hydrology-Meteorology Branch
Division of Site Safety and
Environmental Analysis

Enclosure:
As Stated

cc: w/o encl:
W. Gammill
D. Vassallo
F. Williams
D. Allison
D. Bunch
J. Fairbent

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| SURNAME | JFAirobent | EMarkee | LHulman | | 772990195 |
| DATE | 12/7/77 | 12/9/77 | 12/12/77 | | |

DEC 18 1943




NOV 18 1943

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Original Signed by
J. G. Kinnaman

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