



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

APR 29 1977

Docket Nos. 50-438
and 50-439

APPLICANT: Tennessee Valley Authority

FACILITY: Bellefonte Nuclear Plant

SUBJECT: SUMMARY OF AN APRIL 14, 1977, MEETING WITH TVA TO DISCUSS THE DIESEL GENERATOR QUALIFICATION PROGRAM FOR THE BELLEFONTE NUCLEAR PLANT

We met with representatives of TVA and DeLaval Turbine, Inc. to discuss the qualification program for the diesel generators to be used at the Bellefonte Nuclear Plant. A list of attendees is presented in Enclosure 2.

TVA proposed that we allow them to use the qualification program being done for the Grand Gulf Nuclear Station. Enclosure 1 shows a comparison between the Grand Gulf diesel generators and the ones that will be installed at Bellefonte. Note that the only differences between the diesel generators are: (1) 6,900 volts for Bellefonte versus 4,160 volts for Grand Gulf; and (2) a 24,500,000 btu/hr heat exchanger for Bellefonte versus 23,748,000 btu/hr for Grand Gulf.

Miscellaneous discussions related to diesel generators also took place.

The Power Systems Branch was receptive to the proposal. TVA plans to send a formal request. TVA will also justify by analysis that all differences between the diesel generators, including voltage and heat exchanger differences, will not result in a significant change in test results if the tests had been done on the Bellefonte diesel generators.

A handwritten signature in cursive script that reads "Walter J. Pike".

Walter J. Pike, Project Manager
Light Water Reactors Branch No. 3
Division of Project Management

Enclosures:
As Stated

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cc: Herbert S. Sanger, Jr., Esq.
General Counsel
Tennessee Valley Authority
629 New Sprankle Building
Knoxville, Tennessee 37902

Mr. E. G. Beasley
Tennessee Valley Authority
400 Commerce Avenue, W9C 165
Knoxville, Tennessee 37902

Mr. T. Spink
Licensing Engineer
Tennessee Valley Authority
303 Power Building
Chattanooga, Tennessee 37401



77 0322 541

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March 18, 1977

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Tennessee Valley Authority
400 Commerce Avenue
Knoxville, Tennessee 37092

Attention: Mr. Dwight R. Patterson
Chief Mechanical Engineering Branch
TVA-W10C126
De Laval Serial Nos. 75080/83

Gentlemen:

Further to our letter dated March 7, 1977 and in accordance with your request through our Mr. Pat Ricci, the following the the information required to compare the Middle South Energy units with the units being furnished for the referenced project.

	<u>TVA</u>	<u>MIDDLE SOUTH ENERGY</u>
Engine Model No.	DSRV-16-4	DSRV-16-4
BHP	9758	9758
BMEP	225	225
RPM	450	450
No. of Cycles	4	4
Cylinders	16	16
Bore	17"	17"
Stroke	21"	21"
Piston speed	1575 FPM	1575 FPM
Governor	Woodward EGB-35	Woodward EBB-35
Generator	Electric Prod.	Electric Prod.
KW	7000	7000
Voltage	6900, 60 HZ	4160, 60 HZ
PF	0.8	0.8
(See attached data sheets)		
Excitation	E.P. Portec	E.P. Portec
Type	Static (SVS)	Static (SVS)
Jacket Water Cooler	Thermxchanger	Thermxchanger
Heat Exchanged	24,500,000 btu/hr	23,748,000 btu/hr
Flow (thru engine)	1800 GPM	1800 GPM
Lube Oil Cooler	Thermxchanger	Thermxchanger
Heat Exchanged	3,219,900 btu/hr	3,219,900 btu/hr
Oil Flow	500 GPM	500 GPM

- MEDS, E4337C-K
- G. L. Buchanan, W3C125C
- R. M. Hodges, W7C125C
- S. Kenler, E3C100C-K
- W. M. Eivens, 5160 M13
- R. M. Pierce, W4C126C
- H. C. Rusell, W5C126C
- J. P. Vineyard, W5D224C

Tennessee Valley Authority
March 18, 1977
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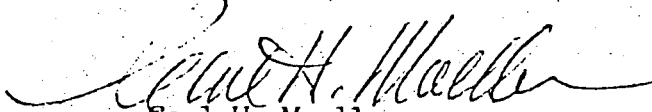


	<u>TVA</u>	<u>MIDDLE SOUTH ENERGY</u>
Auxiliary Motors	Allis Chalmers 3ph, 60hz, 460V Westinghouse 120 V.D.C.	Allis Chalmers 3ph, 60hz, 460V Westinghouse 125 V.D.C.
Auxiliary Fuel Oil Pump	IMO Model GG3DBS- 187	IMO Model G3DBS- 187
Auxiliary Lube Oil Pump	IMO Model A324AAX 412	IMO Model A324AAX- 412
L.O. Keepwarm Pump	IMO Model GG3CHS- 250	IMO Model A324AAS- 250
Jacket Water Keepwarm Pump	Crane Chempump 50 GPM	Crane Chempump 50 GPM
Lube Oil Filter Type	Commercial Pleated Paper	Commercial Pleated Paper
Prelube Filter Type	Commercial Pleated Paper	Commercial Pleated Paper
Generator Control Panel	Delta Switchboard	Delta Switchboard
Air Compressor	IR Mod. H25BX30 2 Stage-Type 40	IR Mod. H25BX30 2 Stage-Type 40
Air Receiver	Thermxchanger 305 cu. ft.	Thermxchanger 305 cu. ft.

In addition we are enclosing copies of the generator data sheets that are applicable to each of the units.

We would appreciate meeting with you at your earliest convenience to review the enclosed and our letter of March 7, 1977.

Very truly yours,


Carl H. Moeller
Project Manager

CHM:cm

Enc.

ENCLOSURE 2

ATTENDANCE LIST

TVA

BELLEFONTE NUCLEAR PLANT

APRIL 14, 1977

NRC

W. Pike
A. Ungaro
R. Fitzpatrick
J. Knox
F. Ash
F. Rosa
A. Hintze
M. Fields
H. Balukjian

TVA

S. Thickman
T. Spink
D. Wilson
J. Hodges

Delaval

A. Fleischer
C. Moeller
D. Henderson

DISTRIBUTION

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MEETING SUMMARY

Docket File
NRC PDR
Local PDR
LWR-3 File
TIC
NRR Reading
B. Rusche
E. Case
R. Boyd
R. DeYoung
D. Vassallo
D. Skovholt
J. Stolz
K. Kniel
O. Parr
S. Varga
R. Denise
R. Clark
T. Speis
P. Collins
C. Heltemes
R. Houston
L. Crocker
J. Miller
F. Williams
R. Heineman

H. Denton
D. Muller
Project Manager, W. Pike
Attorney, OELD
M. Rushbrook
J. Knight
D. Ross
T. Novak
R. Tedesco
R. Bosnak
S. Pawlicki
R. Bosnak
I. Sihweil
P. Check
Z. Rosztomczy
IE (3)
G. Lainas
V. Benaroya
V. Moore
T. Ippolito
R. Vollmer
M. Ernst
F. Rosa
W. Gammill
L. Dreher
ACRS (16)
NRC Participants:
A. Ungaro
R. Fitzpatrick
J. Knox
F. Ash
F. Rosa
A. Hintze
M. Fields
H. Balukjian