

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

April 17, 1985

Director of Nuclear Reactor Regulation  
Attention: Ms. Elinor Adensam, Chief  
Licensing Branch No. 4  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of ) Docket Nos. 50-390  
Tennessee Valley Authority ) 50-391

During recent meetings between TVA and NRC representatives, held to discuss power systems issues, TVA committed to obtain vendor concurrence to support its position that the Watts Bar diesel engines would satisfactorily start in a 40°F ambient environment.

Enclosed is a copy of Morrison-Knudsen Company, Inc's. (the Watts Bar diesel engine supplier) letter to TVA dated April 12, 1985 which supports TVA's position regarding this matter.

We have also enclosed additional data covering diesel generator starts at TVA's Sequoyah Nuclear Plant (SQN). (Refer to TVA's letter dated March 18, 1985 which initially provided data from Sequoyah.) We believe that this data further supports TVA's position that a 40°F low-temperature limit is more appropriate than the 65°F limit suggested by NRC.

In addition, as requested by NRC representative A. R. Ungaro in a telephone discussion on April 12, 1985, the following clarification is being provided to address the Morrison-Knudsen criteria, as transmitted to TVA by communication facsimile, regarding the 24-hour duration for warming the jacket water and lubricating oil. TVA satisfies this criteria since the Watts Bar jacket water immersion heaters are in continuous operation.

We believe that the enclosed information sufficiently demonstrates that the Watts Bar diesel engines will satisfactorily start in a 40°F ambient environment. Therefore, we request that the Watts Bar unit 1 Technical Specifications be revised accordingly.

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PDR ADOCK 05000390  
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Director of Nuclear Reactor Regulation

April 17, 1985

If you have any questions concerning this matter, please get in touch with  
D. B. Ellis at FTS 858-2681.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*R. H. Shell*

R. H. Shell  
Nuclear Engineer

Sworn to and subscribed before me  
this 17<sup>th</sup> day of Apr. 1985.

*Bryant M. Lowery*  
Notary Public

My Commission Expires 4/8/86

Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)  
Region II  
Attn: Dr. J. Nelson Grace, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

ENCLOSURE

**MORRISON-KNUDSEN COMPANY, INC.**

POWER SYSTEMS DIVISION

POST OFFICE BOX 1828  
ROCKY MOUNT, NORTH CAROLINA 27802-1828  
PHONE: (919) 877-8720 / TWX: (910) 829-0726  
TELEX 608807 PSD-RYMO

April 16, 1985

SERIAL NO. 379C-0-0249

Tennessee Valley Authority  
W7C126  
400 West Summit Hill Drive  
Knoxville, TN 37902

ATTENTION: Mr. T. A. Hogan

REFERENCE: Watts Bar Nuclear Plant  
Contract 74C63-83090  
MK/PSD IWO #379

Gentlemen:

In our best engineering judgment and based on our worldwide sales and units operating in various climatic conditions, the diesel generators operating at Watts Bar will start and come up to speed in ten (10) seconds with the temperature of the engine room at 40° F.

Very truly yours,

MORRISON-KNUDSEN COMPANY, INC.  
POWER SYSTEMS DIVISIONW. Frank Jones  
Vice President and General Manager

WFJ:lah

D/G ROOM TEMPS FROM 1982 TO PRESENT

FOR WINTER MONTHS ONLY

<u>YEAR</u>	<u>startup date</u>	<u>temp</u>
1982	1-11	65°
1982	1-13	64°
1982	1-21	64°
1982	2-3	57°
1982	2-9	59°
1982	3-25	60°
1982	11-9	65°
1982	11-10	65°
1982	12-12	53°
1982	12-16	58°
1982	12-56	56°
1983	1-18	65°
1983	1-28	61°
1983	2-11	27°
1983	12-21	63°
1983	12-29	41°
1984	3-21	66°