

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 25, 1984

Chief, Management Information Branch
Office of Management and Program Analysis
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

**WATTS BAR AND BELLEFONTE NUCLEAR PLANTS - CONSTRUCTION STATUS REPORT
(NUREG-0030) (YELLOW BOOK)**

Enclosed are our construction status reports for Tennessee Valley Authority's nuclear plants under construction. Entries on the sheets reflect the status as of March 31, 1984.

Watts Bar Units 1 and 2--The fuel load dates are as follows:

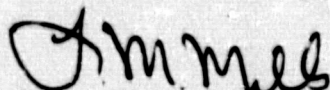
Unit 1 - June 1984
Unit 2 - December 1985

Bellefonte Units 1 and 2--The fuel load dates are as follows:

Unit 1 - October 1987
Unit 2 - October 1989

Very truly yours,

TENNESSEE VALLEY AUTHORITY



L. M. Mills, Manager
Nuclear Licensing

Enclosures

cc: U.S. Nuclear Regulatory Commission (Enclosures)
Region II
Attn: James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

8504120288 840606
PDR FDIA
KILLEFE84-367 PDR

1983-TVA 50TH ANNIVERSARY

An Equal Opportunity Employer

PLANT CHARACTERISTICS:

DOCKET NO: 05000390
 CP NO. & DATE ISSUED: CPR-91 / 01-23-73
 CP EXPIRATION DATE: 06-01-79
 APPLICANT: TENNESSEE VALLEY AUTHORITY
 PLANT LOCATION: RHEA COUNTY, TENNESSEE
 IE REGION: II
 AE: TVA
 NSSS: WESTINGHOUSE
 CONSTRUCTOR: TVA
 REACTOR TYPE: FWR
 DER (NVE): 1163

KEY PERSONNEL:

CORPORATE CONTACT : H. G. PARRIS, MANAGER
 OF POWER
 CORPORATE ADDRESS : 500A CHESTNUT STREET TOWER II
 CHATTANOOGA, TENNESSEE 37401
 CORPORATE PHONE NO : (615) 751-2823
 NRC LPM : T. KENTON
 IE PRINCIPAL INSPECTOR:
 -CONSTRUCTION: P. FREDRICESON
 -TEST AND STARTUP: D. HINCKLEY
 IE RESIDENT INSPECTOR : T. HEATHERLEY & W. SWAN

INSPECTION STATUS:

TIME PERIOD		
REPORT NUMBER	BEG DATE OF INSP.	END DATE OF INSP.
83-50	11-28-83	12-02-83
83-51	12-12-83	12-16-83
83-52	12-12-83	12-15-83
83-53	12-12-83	12-16-83
83-54	11-28-83	12-24-83
83-55	12-12-83	12-16-83
83-56	12-25-83	01-20-84
84-01	01-03-84	01-06-84
84-02	01-10-84	01-13-84
84-03	01-17-84	01-20-84
84-04	01-23-84	01-25-84
84-05	01-17-84	01-20-84
84-06	01-10-84	02-03-84
84-07	02-06-84	02-10-84
84-08	02-13-84	02-17-84
84-09	01-30-84	02-03-84
84-10	02-06-84	02-10-84
84-11	01-31-84	02-03-84
84-12	02-14-84	02-17-84
84-13	01-21-84	02-22-84
84-14	02-21-84	02-21-84
	02-23-84	02-24-84
84-16	02-28-84	03-02-84
84-18	03-06-84	03-09-84
84-19	02-27-84	03-02-84
84-21	03-12-84	03-15-84

FUEL LOAD DATE CHANGES
AS REPORTED BY UTILITY:

REPORT DATE	NEW SCHEDULE	REASON FOR CHANGE REPORTED BY UTILITY
11-16-73	01-16-78	INABILITY TO OBTAIN STEEL ANCHOR BOLTS AND REINFORCING RODS.
05-14-74	06-00-78	REDESIGN OF CONTAINMENT TO ACCOMMODATE HIGHER TRANSIENT PRESSURES, INABILITY TO OBTAIN REDESIGNED STEEL ANCHOR BOLTS AND REINFORCING RODS, PLUS AN INCREASE IN TIME
07-23-76	12-05-78	LATE DELIVERY OF PRINCIPAL PIPING, VALVES, AND HANGERS WHICH FORCED IMPOSSIBLE PEAKS IN STEAMPITTER MANPOWER.
01-09-78	06-00-79	LATE DELIVERY OF ICE CONDENSER EMBEDMENTS
11-07-78	12-00-79	NO REASON GIVEN.
09-12-79	09-01-80	NO REASON GIVEN.
09-10-80	11-00-81	NO REASON PROVIDED.
09-10-81	08-00-82	STEAM GENERATOR PROBLEMS AND PIPING
04-09-82	08-00-83	NO REASON PROVIDED
03-01-83	01-00-84	RECHEDULING OF STEAM GENERATOR VIBRATION MODIFICATIONS AND VARIOUS PIPING SYSTEM MODIFICATIONS FOR WATER QUALITY IMPROVEMENT
10-11-83	04-00-84	PIPING ANALYSIS AND HANGER/SUPPORT DESIGN
01-23-84	06-14-84	NO REASON PROVIDED

LOCAL PUBLIC DOCUMENT ROOM:

CHATTANOOGA-HAMILTON COUNTY
 BICENTENNIAL LIBRARY
 1001 BROAD STREET
 CHATTANOOGA, TENNESSEE 37402

CONSTRUCTION STATUS:

APPLICANT'S CURRENT ESTIMATED FUEL LOADING DATE : 06-14-84
 APPLICANT'S PREVIOUS ESTIMATED FUEL LOADING DATE : 04-00-84
 APPLICANT'S ESTIMATED FUEL LOADING DATE AT CP ISSUANCE : 11-00-76
 APPLICANT'S CURRENT ESTIMATED COMMERCIAL OPERATION DATE: 12-00-84

APPLICANT'S CONSTRUCTION COMPLETION ESTIMATE AS
 DEFINED IN CP: (EARLIEST)
 (LATEST)

DATE CONSTRUCTION STARTED: 12-26-72

CURRENT ESTIMATED PERCENT CONSTRUCTION COMPLETE: 98%

CURRENT ESTIMATED CONSTRUCTION DURATION IN MONTHS: 139

COMMENTS REGARDING CURRENT CONSTRUCTION STATUS:

	<u>ESTIMATED START</u>	<u>ACTUAL START</u>	<u>ESTIMATED COMPLETION</u>	<u>ACTUAL COMPLETION</u>	<u>ESTIMATED % COMPLETION</u>
MOBILIZE AND PREPARE SITE:		12-26-72		04-15-74	100 %
POUR STRUCTURAL CONCRETE:		04-09-74	02-07-84		99 %
INSTALL REACTOR PRESSURE VESSEL:		12-07-76		05-05-77	100 %
INSTALL LARGE BORE PROCESS PIPE:		10-17-77	02-07-84		99 %
INSTALL LARGE BORE PIPE HANGERS, RESTRAINTS, AND SNUBBERS:		10-17-77	05-17-84		95 %
INSTALL SMALL BORE PIPE:		07-01-77	05-17-84		99 %
INSTALL CABLE TRAY:		11-02-73	05-17-84		99 %
INSTALL EXPOSED METAL CONDUIT:		09-08-75	05-17-84		98 %
INSTALL POWER, CONTROL, INSTRUMENTATION, AND SECURITY CABLE:		06-03-76	05-17-84		99 %
INSTALL ELECTRICAL TERMINATIONS:		06-03-76	05-17-84		99 %
CONDUCT REACTOR COLD HYDROSTATIC TEST:		10-15-81		10-24-81	100 %
CONDUCT HOT FUNCTIONAL TEST:		03-31-83		08-28-83	100 %
CONDUCT PREOP AND ACCEPTANCE TESTS NECESSARY FOR FUEL LOAD:		01-02-79	06-14-84		71 %

PLANT CHARACTERISTICS:

DOCKET NO: 05000391
 CP NO. & DATE ISSUED: CPR-92 / 01-23-73
 CP EXPIRATION DATE: 03-01-80
 APPLICANT: TENNESSEE VALLEY AUTHORITY
 PLANT LOCATION: BREA COUNTY, TENNESSEE
 IE REGION: II
 AE: TVA
 NSSS: WESTINGHOUSE
 CONSTRUCTOR: TVA
 REACTOR TYPE: PWR
 DER (NVE): 1163

KEY PERSONNEL:

CORPORATE CONTACT : W. G. PARRIS, MANAGER
 OF POWER
 CORPORATE ADDRESS : 500A CHESTNUT STREET TOWER II
 CHATTANOOGA, TENNESSEE 37401
 CORPORATE PHONE NO : (615) 751-2823
 NRC LFN : T. KENTON
 IE PRINCIPAL INSPECTOR:
 -CONSTRUCTION: P. FREDRICKSON
 -TEST AND STARTUP: D. WINCKLEY
 IE RESIDENT INSPECTOR : T. HEATHERLEY & W. SWAN

INSPECTION STATUS:

TIME PERIOD		
REPORT NUMBER	BEG DATE OF INSP.	END DATE OF INSP.
83-39	11-28-83	12-02-83
83-40	12-12-83	12-16-83
83-42	12-12-83	12-15-83
83-42	12-12-83	12-16-83
83-43	11-28-83	12-24-83
83-44	12-25-83	01-20-84
84-01	01-03-84	01-06-84
84-02	01-10-84	01-13-84
84-03	01-17-84	01-20-84
84-04	01-23-84	01-25-84
84-05	01-17-84	01-20-84
84-06	01-30-84	02-03-84
84-07	02-06-84	02-10-84
84-08	02-13-84	02-17-84
84-09	01-31-84	02-03-84
84-10	02-14-84	02-17-84
84-11	01-21-84	02-22-84
84-13	02-28-84	03-02-84
84-14	02-21-84	02-21-84
	02-23-84	02-24-84
84-15	02-27-84	03-02-84

FUEL LOAD DATE CHANGES
AS REPORTED BY UTILITY:

REPORT DATE	NEW SCHEDULE	REASON FOR CHANGE REPORTED BY UTILITY
11-16-73	01-16-78	INABILITY TO OBTAIN STEEL ANCHOR BOLTS AND REINFORCING RODS.
05-14-74	06-00-78	REDESIGN OF CONTAINMENT TO ACCOMMODATE HIGHER TRANSIENT PRESSURES, INABILITY TO OBTAIN REDESIGNED STEEL ANCHOR BOLTS AND REINFORCING RODS, PLUS AN INCREASE IN TIME
07-23-76	12-05-78	LATE DELIVERY OF PRINCIPAL PIPING, VALVES, AND HANGERS WHICH FORCED IMPOSSIBLE PEAKS IN STRAMFITTER MANPOWER.
01-09-78	06-00-79	LATE DELIVERY OF ICE CONDENSER EMBEDMENTS
11-07-78	12-00-79	NO REASON GIVEN.
09-12-79	09-01-80	NO REASON GIVEN.
09-10-80	11-00-81	NO REASON PROVIDED.
09-10-81	06-00-83	
04-09-82	08-00-84	STEAM GENERATOR PROBLEMS AND PIPING
01-21-82	12-00-84	NO REASON PROVIDED
03-31-83	01-00-85	NO REASON PROVIDED
06-30-83	01-00-85	NO REASON PROVIDED
10-11-83	10-00-85	PIPING ANALYSIS AND HANGER/SUPPORT DESIGN
01-23-84	12-00-85	NO REASON PROVIDED

LOCAL PUBLIC DOCUMENT ROOM:

CHATTANOOGA-HAMILTON COUNTY
 BICENTENNIAL LIBRARY
 1001 BROAD STREET
 CHATTANOOGA, TENNESSEE 37402

CONSTRUCTION STATUS:

APPLICANT'S CURRENT ESTIMATED FUEL LOADING DATE : 12-00-85
 APPLICANT'S PREVIOUS ESTIMATED FUEL LOADING DATE : 10-00-85
 APPLICANT'S ESTIMATED FUEL LOADING DATE AT CP ISSUANCE : 05-00-77
 APPLICANT'S CURRENT ESTIMATED COMMERCIAL OPERATION DATE: 03-00-87

APPLICANT'S CONSTRUCTION COMPLETION ESTIMATE AS
 DEFINED IN CP: (EARLIEST)
 (LATEST)

DATE CONSTRUCTION STARTED: 12-26-72

CURRENT ESTIMATED PERCENT CONSTRUCTION COMPLETE: 60%

CURRENT ESTIMATED CONSTRUCTION DURATION IN MONTHS: 161

COMMENTS REGARDING CURRENT CONSTRUCTION STATUS:

	<u>ESTIMATED START</u>	<u>ACTUAL START</u>	<u>ESTIMATED COMPLETION</u>	<u>ACTUAL COMPLETION</u>	<u>ESTIMATED % COMPLETION</u>
MOBILIZE AND PREPARE SITE:		12-26-72		04-15-74	100 %
PLACE STRUCTURAL CONCRETE:		05-10-74	07-01-85		99 %
INSTALL REACTOR PRESSURE VESSEL:		06-30-77		10-10-77	100 %
INSTALL LARGE BORE PROCESS PIPE:		12-09-77	07-01-85		66 %
INSTALL LARGE BORE PIPE HANGERS, RESTRAINTS, AND SNUBBERS:		03-10-78	07-01-85		17 %
INSTALL SMALL BORE PIPE:		11-01-77	07-01-85		51 %
INSTALL CABLE TRAY:		11-02-73	07-01-85		85 %
INSTALL EXPOSED METAL CONDUIT:		09-08-75	07-01-85		75 %
INSTALL POWER, CONTROL, INSTRUMENTATION, AND SECURITY CABLE:		08-20-76	07-01-85		79 %
INSTALL ELECTRICAL TERMINATIONS:		08-20-76	07-01-85		66 %
CONDUCT REACTOR COLD HYDROSTATIC TEST:	07-25-84		08-08-84		0 %
CONDUCT HOT FUNCTIONAL TEST:	02-06-85		04-24-85		0 %
CONDUCT PREOP AND ACCEPTANCE TESTS NECESSARY FOR FUEL LOAD:	01-17-85		12-00-85		0 %

PLANT CHARACTERISTICS:

DOCKET NO: 05000438
 CP NO. & DATE ISSUED: CPE-122 / 12-24-74
 CP EXPIRATION DATE: 03-01-83
 APPLICANT: TENNESSEE VALLEY AUTHORITY
 PLANT LOCATION: JACKSON COUNTY, ALABAMA
 IE REGION: II
 AE: TVA
 NSSS: BABCOCK & WILCOX
 CONSTRUCTOR: TVA
 REACTOR TYPE: FWR
 DER (NWR): 1235

KEY PERSONNEL:

CORPORATE CONTACT : H. G. PARRIS, MANAGER
 OF POWER
 CORPORATE ADDRESS : 500A CHESTNUT STREET TOWER II
 CHATTANOOGA, TENNESSEE 37401
 CORPORATE PHONE NO : (615) 751-2623
 NRC LPM : R. Hornes
 IE PRINCIPAL INSPECTOR:
 -CONSTRUCTION: P. FREDRICKSON
 -TEST AND STARTUP:
 IE RESIDENT INSPECTOR : J. D. WILCOX

INSPECTION STATUS:

FUEL LOAD DATE CHANGES
AS REPORTED BY UTILITY:

TIME PERIOD		
REPORT NUMBER	REG DATE OF INSP.	END DATE OF INSP.
83-30	11-07-83	11-10-83
	11-14-83	11-18-83
	12-09-83	12-09-83
83-31	11-01-83	12-06-83
83-32	12-12-83	12-15-83
83-33	12-06-83	12-31-83
84-01	01-01-84	01-31-84
84-03	02-07-84	02-10-84
84-04	02-07-84	02-11-84
84-05	02-01-84	02-29-84
84-06	03-06-84	03-09-84

REPORT DATE	NEW SCHEDULE	REASON FOR CHANGE REPORTED BY UTILITY
04-11-75	12-00-79	NO REASON NOTED.
09-06-78	03-00-81	NO REASON NOTED.
08-16-79	09-00-82	NO REASON NOTED.
09-10-80	03-00-83	NO REASON NOTED.
12-01-81	09-00-83	NO REASON NOTED.
06-30-82	05-00-85	NO REASON NOTED.
12-02-83	10-00-87	NO REASON NOTED.

CONSTRUCTION STATUS:

APPLICANT'S CURRENT ESTIMATED FUEL LOADING DATE : 10-00-87
 APPLICANT'S PREVIOUS ESTIMATED FUEL LOADING DATE : 09-00-85
 APPLICANT'S ESTIMATED FUEL LOADING DATE AT CP ISSUANCE : 06-00-79
 APPLICANT'S CURRENT ESTIMATED COMMERCIAL OPERATION DATE: 11-00-85

APPLICANT'S CONSTRUCTION COMPLETION ESTIMATE AS
 DEFINED IN CP: (EARLIEST) - 06-01-79
 (LATEST) - 12-01-79

DATE CONSTRUCTION STARTED: 09-18-74

CURRENT ESTIMATED PERCENT CONSTRUCTION COMPLETE: 79%

CURRENT ESTIMATED CONSTRUCTION DURATION IN MONTHS: 157

COMMENTS REGARDING CURRENT CONSTRUCTION STATUS:

	<u>ESTIMATED START</u>	<u>ACTUAL START</u>	<u>ESTIMATED COMPLETION</u>	<u>ACTUAL COMPLETION</u>	<u>ESTIMATED % COMPLETION</u>
MOBILIZE AND PREPARE SITE:		09-00-74		07-00-75	100 %
PLACE STRUCTURAL CONCRETE:		06-00-75		08-00-82	100 %
INSTALL REACTOR PRESSURE VESSEL:		08-00-76		11-00-76	100 %
INSTALL LARGE BORE PROCESS PIPE:		10-00-75	07-00-86		98 %
INSTALL LARGE BORE PIPE HANGERS, RESTRAINTS, AND SNUDDERS:		05-00-77	09-00-86		83 %
INSTALL SMALL BORE PIPE:		01-00-76	07-00-86		96 %
INSTALL CABLE TRAY:		02-00-77	10-00-85		99 %
INSTALL EXPOSED METAL CONDUIT:		04-00-75	03-00-86		82 %
INSTALL POWER, CONTROL, INSTRUMENTATION, AND SECURITY CABLE:		11-00-77	08-00-86		84 %
INSTALL ELECTRICAL TERMINATIONS:		03-00-78	08-00-86		82 %
CONDUCT REACTOR COLD HYDROSTATIC TEST:	05-00-86		06-00-86		0 %
CONDUCT HOT FUNCTIONAL TEST:	09-00-86		11-00-86		0 %
CONDUCT P&OP AND ACCEPTANCE TESTS NECESSARY FOR FUEL LOAD:		01-00-82	10-00-87		5 %

PLANT CHARACTERISTICS:

DOCKET NO: 03000439
 CP NO. & DATE ISSUED: CPR-123 / 12-24-74
 CP EXPIRATION DATE: 12-01-83
 APPLICANT: TENNESSEE VALLEY AUTHORITY
 PLANT LOCATION: JACKSON COUNTY, ALABAMA
 IE REGION: II
 AE: TVA
 NSSS: BADCOCK & WILCOX
 CONSTRUCTOR: TVA
 REACTOR TYPE: FWR
 DER (NWR): 1233

KEY PERSONNEL:

CORPORATE CONTACT : B. G. PARRIS, MANAGER
 OF POWER
 CORPORATE ADDRESS : 309A CHESTNUT STREET TOWER 11
 CHATTANOOGA, TENNESSEE 37401
 CORPORATE PHONE NO : (615) 751-2823
 MRC LFN : B. BERMAN
 IE PRINCIPAL INSPECTOR:
 -CONSTRUCTION: P. FREDRICKSON
 -TEST AND STARTUP:
 IE RESIDENT INSPECTOR : J. D. WILCOX

INSPECTION STATUS:

TIP PERIOD		
REPORT NUMBER	BSR DATE OF INSP.	END DATE OF INSP.
83-30	11-07-83	11-10-83
	11-14-83	11-18-83
	12-09-83	12-09-83
83-31	11-01-83	12-06-83
83-32	12-12-83	12-15-83
83-33	12-06-83	12-31-83
84-01	01-01-84	01-31-84
84-03	02-07-84	02-10-84
84-04	02-07-84	02-11-84
84-05	02-01-84	02-29-84
84-06	03-06-84	03-09-84

PUPL LOAD RATE CHANGES
AS REPORTED BY UTILITY:

REPORT DATE	NEW SCHEDULE	REASON FOR CHANGE REPORTED BY UTILITY
04-11-75	12-00-79	NO REASON NOTED.
09-06-78	03-00-81	NO REASON NOTED.
08-16-79	09-00-82	NO REASON NOTED.
09-10-80	09-00-84	NO REASON NOTED.
06-30-82	05-00-86	NO REASON NOTED.
12-02-83	10-00-89	NO REASON NOTED.

LOCAL PUBLIC DOCUMENT ROOM:

SCOTTSBORO PUBLIC LIBRARY
 1002 SOUTH BROAD STREET
 SCOTTSBORO, ALABAMA 35768

CONSTRUCTION STATUS:

APPLICANT'S CURRENT ESTIMATED FUEL LOADING DATE : 10-00-89
 APPLICANT'S PREVIOUS ESTIMATED FUEL LOADING DATE : 05-00-86
 APPLICANT'S ESTIMATED FUEL LOADING DATE AT CP ISSUANCE : 03-00-80
 APPLICANT'S CURRENT ESTIMATED COMMERCIAL OPERATION DATE: 11-00-86

APPLICANT'S CONSTRUCTION COMPLETION ESTIMATE AS
 DEFINED IN CP: (EARLIEST) - 03-01-80
 (LATEST) - 09-01-80

DATE CONSTRUCTION STARTED: 09-18-74

CURRENT ESTIMATED PERCENT CONSTRUCTION COMPLETE: 57%

CURRENT ESTIMATED CONSTRUCTION DURATION IN MONTHS: 181

COMMENTS REGARDING CURRENT CONSTRUCTION STATUS:

	<u>ESTIMATED START</u>	<u>ACTUAL START</u>	<u>ESTIMATED COMPLETION</u>	<u>ACTUAL COMPLETION</u>	<u>ESTIMATED % COMPLETION</u>
MOBILIZE AND PREPARE SITE:		09-00-74		07-00-75	100 %
PLACE STRUCTURAL CONCRETE:		06-00-75		06-00-83	100 %
INSTALL REACTOR PRESSURE VESSEL:		02-00-77		02-00-77	100 %
INSTALL LARGE BORE PROCESS PIPE:		10-00-75	07-00-88		76 %
INSTALL LARGE BORE PIPE HANGERS, RESTRAINTS, AND SNUBBERS:		07-00-78	09-00-88		59 %
INSTALL SMALL BORE PIPE:		09-00-77	07-00-88		55 %
INSTALL CABLE TRAY:		05-00-77	10-00-87		93 %
INSTALL EXPOSED METAL CONDUIT:		10-00-75	03-00-88		63 %
INSTALL POWER, CONTROL, INSTRUMENTATION, AND SECURITY CABLE:		03-00-78	08-00-88		62 %
INSTALL ELECTRICAL TERMINATIONS:		04-00-78	08-00-88		53 %
CONDUCT REACTOR COLD HYDROSTATIC TEST:	05-00-88		06-00-88		0 %
CONDUCT HOT FUNCTIONAL TEST:	09-00-88		11-00-88		0 %
CONDUCT PREOP AND ACCEPTANCE TESTS NECESSARY FOR FUEL LOAD:	04-00-84		10-00-89		0 %