TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401 400 Chestnut Street Tower II

October 28, 1981

Mr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U.S. Nuclear Regulatory Commission Washington, OC 20555

Dear Mr. Denton:

In the Matter of the Tennessee Valley Authority

Docket Nos. 50-259

50-296

AR REGULATOR

On September 30, 1981, we met with representatives of your staff to discuss the impact of the workload resulting from NRC requirements at Browns Ferry Nuclear Plant. As discussed in this meeting, we have recently completed our review of onsite manpower predictions at Browns Ferry necessary to meet all current NRC commitments for the next two years. The purpose of our review was to integrate all the necessary work into a unified program of maximum effort that will in fact minimize safety concerns as promptly as possible.

The following is a list of enclosures which provide the results of our review. These enclosures were discussed in detail with your staff in the September 30 meeting.

Enclosure 1 - Basis for Schedule Review

Enclosure 2 - Manpower Allocations Before Deferrals

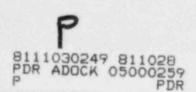
Enclosure 3 - Effects of Modifications on our Operating Units
Enclosure 4 - Criteria Utilized to Develop Proposed Deferments
Enclosure 5 - List of Commitment Items Scheduled for Completion
During the Next Two Years

Enclosure 6 - Cosmitments Proposed for Deferral Beyond the Next Two Years

Enclosure 7A, 7B & 7C - Proposed Schedule

Enclosure 8 & 9 - Manpower Summary After Deferral

Enclosure 10 & 11 - Effect of the Deferrals on the Next Outages for Units 3 and 2



Bool ,

As we have previously indicated, the modification requirements at Browns Ferry for the next two years are very extensive and require extremely high manpower levels. The effects of this workload were discussed in detail in the September 30 meeting and are delineated in Enclosure 3. Pised on this fact and the above described review, we request your a, eval of our proposal as outlined in Enclosures 7A, 7B, and 7C. We must emphasize that our schedule through October 1983 is already super-saturated. Any new NRC requirements requiring modification completion during this time will require slipping an item already scheduled for completion in this timeframe beyond October 1983 or moving the new requirements out beyond October 1983.

Upon receipt of your concurrence, we intend to maintain our schedule with you as a "living document." Our ultimate goal would be to work closely with you to integrate all future NRC requirements into our schedule and provide you with quarterly updates of our schedules. New deferments may then be requested based on integrating new NRC requests, commitments, or regulations into our existing schedule.

We will make every possible effort to meet the schedules outlined in the enclosures. However, many things can happen that may impact these schedules. Such things as equipment procurement problems, undefined or changing design scopes, and unit outages could positively or negatively effect our future schedules. We will inform you of any such problems and if necessary we will request schedule adjustments on a case by case basis.

We believe that the integrated process described above will be very beneficial to TVA and NRC. Your cooperation in this matter will be greatly appreciated. We will be glad to meet with you to discuss these matters at your convenience.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager

Nuclear Regulation and Safety

Subscribed and sworn to before me this grad day of

1981.

Notary Public

My Commission Expires

4/4/82

Enclosures

cc: See page 3

Mr. Harold A. Denton

October 28, 1981

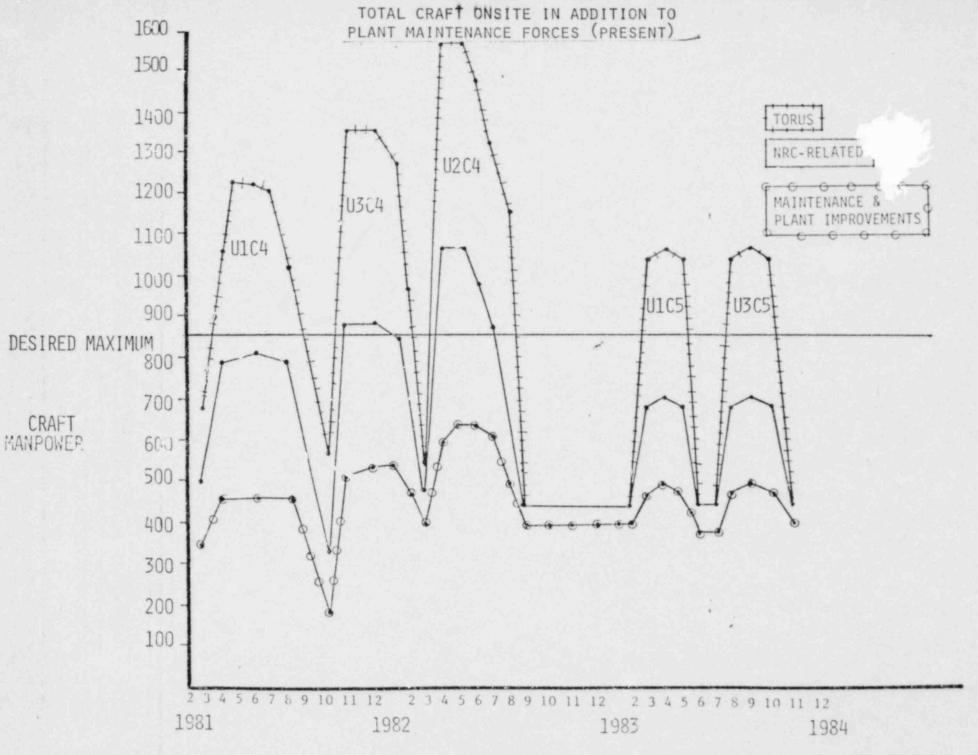
cc:(Enclosures):

Mr. Victor Stello, Director Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission Washington, DC 20555

Mr. James P. O'Reilly, Director Office of Inspection and Enforcement U.S. Nuclear Regulatory Commission Region II - Suite 3100 101 Marietta Street Atlanta, Georgia 30303

BASIS FOR SCHEDULE REVIEW

- . TVA AND NCC HAVE IDENTIFIED NEGATIVE TREMDS IN SAFELY MANAGING THE AMOUNT OF WORK CURRENTLY BEING PERFORMED
- . AVAILABILITY OF QUALIFIED TECHNICAL AND MANAGERIAL SUPPORT
- . COMPLEXITY OF SCHEDULE MULTIPLE CRITICAL PATHS



MONTHS - YEARS

ON OPERATING UNITS

- SINCE NRC COMMITMENTS TAKE TOP PRIORITY, AVAILABILITY/
 RELIABILITY, PERSONNEL SAFETY, NEEDED PREVENTATIVE
 MAINTENANCE, AND OTHER PLANT MAINTENANCE PROGRAMS ARE
 TAKING SECOND PLACE AND ARE BEING DEFERRED.
- . EXTENDED PERIODS OF WORKING EMPLOYEES EXCESSIVE OVERTIME LEADS TO A DETERIORATION IN EMPLOYEE ALERTNESS RESULTING IN MORE PERSONNEL ERRORS.
- PLANT STAFF'S PARTICIPATION IN MODIFICATION RELATED ACTIVITIES PLACES AN ADDITIONAL BURDEN ON PERSONNEL MANY TIMES TO THE DETRIMENT OF THE OPERATION OF THE UNITS.
- THE HIGH LEVEL OF WORK ACTIVITY IMPOSES A NEAR IMPOSSIBLE PROCEDURAL, TESTING, AND MAINTENANCE CHANGE PREPARATION LOAD AS WELL AS ADDITIONAL TRAINING (OVER 1100 OPERATING PROCEDURE CHANGES WERE MADE LAST YEAR).
- . LARGE NUMBERS OF EMPLOYEES RESULT IN INCREASED SECURITY, HEALTH PHYSICS, AND QA DEVIATIONS AS WELL AS LER'S.
- . AVAILABILITY REDUCTIONS.
- PERFORMANCE OF MODIFICATIONS ON OPERATING UNITS TO MEET SCHEDULES INCREASE PROBABILITY OF CHALLENGES TO REACTOR PROTECTION AND SAFETY SYSTEMS.
- OPERATIONS PEOPLE REQUIRED TO OPERATE THE UNIT CANNOT SUPPORT THE MAGNITUDE OF THE MODIFICATION EFFORT IN PROGRESS.

TVA CRITERIA FOR COMMITMENT SCHEDULE REVIEW

- 1) THE TECHNICAL DESIGN (STATE-OF-THE ART, NRC CRITERIA, AND PHYSICAL DESIGN EFFORT), MATERIAL DELIVERY, AND PHYSICAL IMPLEMENTATION CANNOT SUPPORT THE REQUIRED COMPLETION DATE.
- 2) THE WORK ACTIVITY CAN BE DEFERRED WITHOUT ADVERSE EFFECT ON NUCLEAR SAFETY.
- The REMAINING WORK ACTIVITIES WERE REVIEWED TO DETERMINE THOSE ACTIVITIES WHICH COULD BE WORKED WITHOUT SIGNIFICANTLY AFFECTING OUTAGE DURATION AND MANPOWER REQUIREMENTS.

NRC COMMITMENTS SCHEDULED FOR COMPLETION WITHIN THE NEXT TWO YEARS

(OCTOBER 1981 - OCTOBER 1987)

NUREG-0737 REQUIREMENTS

II.K.3.15

MODIFY BREAK DETECTION LOGIC

II.F.1.6.A

REPLACE 02/H2 SAMPLE RETURN PUMPS IN PANELS 25-336 AND -337

II.E.4.2.6

CONTAINMENT ISOLATION DEPENDABILITY

MISCELLANEOUS COMMITMENTS

CONTROL ROOM CEILING TILE FLAMMABILITY

UNDERVOLTAGE MODIFICATIONS

IE BULLETIN 79-02 AND 79-14 (INSPECTIONS AND INITIAL DEFICIENCIES)

TORUS INTEGRITY MODIFICATIONS (EXCEPT ATTACHED PIPING)

IE BULLETIN 79-27

SUPPRESSION POOL TEMPERATURE MONITORING SYSTEM (NUREC-0661)

LPCI MODIFICATIONS

VARIOUS SECURITY MODIFICATION COMMITTED BY TVA LETTER OF JUNE 12, 1981, TO NRC

ENCLOSURE 6

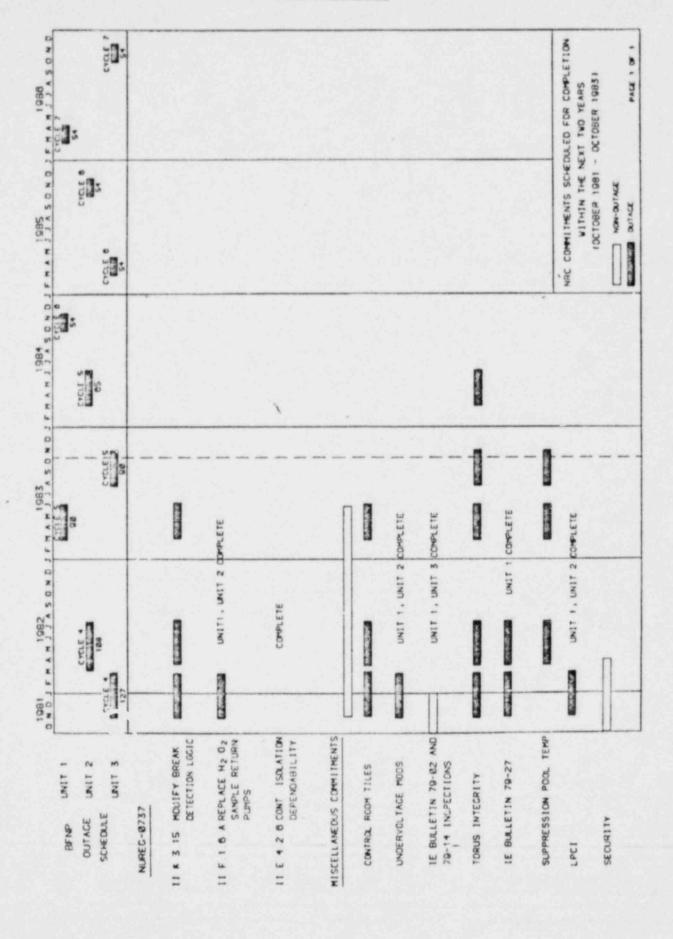
CATEGORIES OF PROPOSED DEFERMENT COMPLETIONS

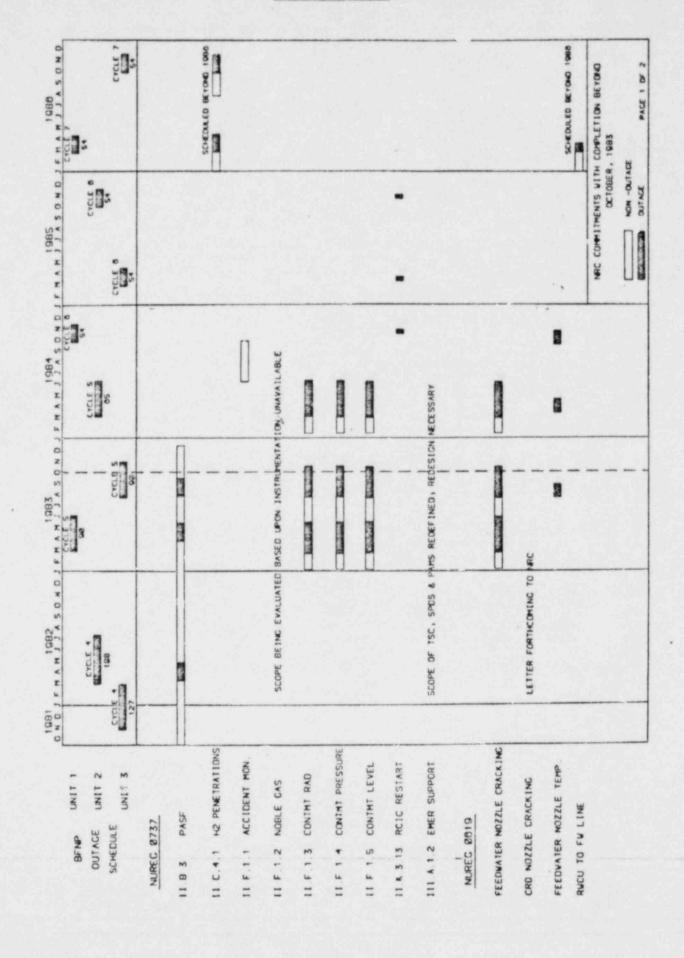
CRITERIA I: Undefined Scope, Technical Design or Materials
Incomplete

11.0.0	POSTACCIDENT SAMPLING
II.E.4.1	DEDICATED H2 PENETRATIONS
II.F.1.1	
II.F.1.2	INSTRUMENTATION NOBLE GAS/IODINE MONITOR
II.F.1.3	CONTAINMENT HI-RANGE MONITOR,
II.F.1.4	CONTAINMENT PRESSURE
II.F.1.5	CONTAINMENT WATER LEVEL
II.K.3.13	RCIC Auto Restart
III.A.1.2	Upgrade Fmergency Support
	CRD System (IE BULLETIN 80-17)
,	ANTICIPATED TRANSIENT WITHOUT SCRAM (ATWS)
	MODIFY REACTOR PROTECTION SYSTEM
	IE BULLETIN 79-01B

CRITERIA II: No Adverse Affect on Nuclear Safety For Which Completion Would Cause Adverse Manpower Impacts

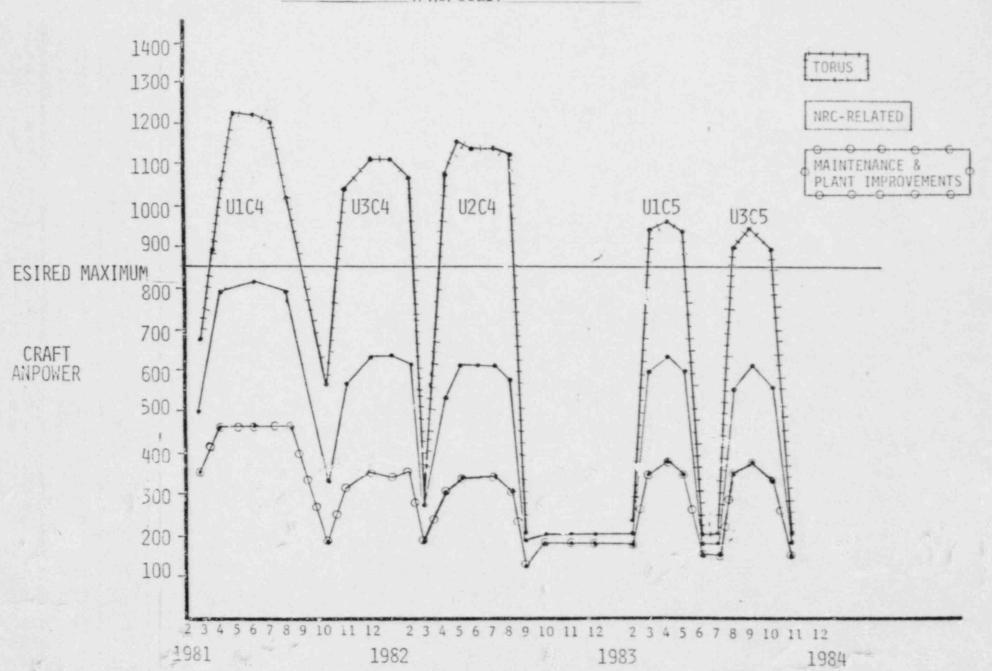
CRD RETURN LINE NOZZLE CRACKING (NUREG-0619)
FW Nozzle Cracking (NUREG-0619)
YARD UNWATERING
EVACUATION ALARMS (IE BULLETIN 79-18)
RWCU LINE CONNECTION TO FW LINE A
TEMPERATURE INDICATION ON FEEDWATER NOZZLES
EIGHT-HOUR EMERGENCY LIGHTING (APPENDIX R)





cage 7					SCHEDULED BEYOND 1986								ION BEYOND
CACLE 7			Π	-	SCHEDULE								, 1983
court s				3	3	MODIEY		9	2				MRC COMMITMENTS WITH COMPLETION BEYOND OCTOBER, 1983
S III.				U	7				8				NAC COMMI
٠ ٢ ١					3			8	0	8			
CYAL S	The state of		Ц	1	Education .						SONIO		KIMATELY 2018
\$ 8000 \$ 3000	Comment States and				Branch Control	ANALYZE & HODIFY		-			NED BY WATER SEEPAGE FT		DATE OF 775/87 IS BASED UPON APPROX
CYCLE 5 CYCLE 5 CYCLE 6 CYCLE	BASED UPON NRC RULE-MAKING		•		A CONTRACTOR OF THE PARTY OF TH	INSP					DURATION VILL BE DETERMENED BY WATER SEEPAGE FI		* COMPLETION DATE OF 7/1/87 15 CURRENILY IDENTIFIED LITEMS.
SCHEDULE UNIT 3	** TORUS ATVS	I E BULLETINS	79-18 ENER EVACUATION	SO-17 PIPING MODS	*79-818 QUAL MTLS	**79-82 & 79-14	UNDERVOLTAGE HDDS	1 8 0	RPS	480V S/D BD.	R B VTR SEEPACE	APPENDIX R BLDC ENER LICHTING	

TOTAL CRAFT OMSITE IN ADDITION TO PLANT MAINTENANCE FORCES (PROPOSED)



TOTAL CRAFT ONSITE IN ADDITION TO PLANT MAINTENANCE FORCES

