

July 16, 1999

LICENSEE: Tennessee Valley Authority

FACILITY: Sequoyah Nuclear Plant, Units 1 and 2

SUBJECT: SUMMARY - JULY 15, 1999, MEETING TO DISCUSS TVA'S EVALUATION OF THE FEE STRUCTURE COMPARED WITH RECENT ACTUAL FEES AND THE NRC GUIDANCE IN ESTIMATING REVIEW EFFORT FOR LICENSING ACTIONS

On July 15, 1999, representatives of the Tennessee Valley Authority (TVA), the licensee for the Browns Ferry, Sequoyah, and Watts Bar Nuclear Plants, met in a public meeting with members of the U.S. Nuclear Regulatory Commission (NRC) staff at NRC Headquarters in Rockville, Maryland. TVA requested this meeting to brief the staff regarding their recent efforts in comparing actual licensing action review level of effort (over the past two years) against the example estimates given in the enclosure to Office of Nuclear Reactor Regulation (NRR) Office Letter (OL) No. 803. A list of attendees is given in Enclosure 1. The handout provided by TVA during the meeting is included as Enclosure 2.

TVA performed an evaluation of the NRC fee structure and a review of actual NRC billings during FY97 and FY98 for all three operating TVA nuclear plant sites. The billings included review of licensing actions submitted to NRC for approval and plant inspections conducted primarily by NRC Region II (see Enclosure 2). This meeting focused on the cost to TVA for review of licensing actions with detailed discussions of those reviews that required an extraordinary amount of NRC review time as measured by comparison to the estimated review times given in OL 803. The NRR Project Managers for Sequoyah and Watts Bar were present and discussed particular problems with the outlier review issues. The Lead Project Manager for OL 803 was also present.

The information presented by TVA at the meeting was very extensive and will be useful to the NRC in the next update to OL 803 and to understanding the reasons that some reviews in the past have required more resources than anticipated. This information may also be used in other current NRC initiatives involving the Project Manager function within NRR.

Original signed by:

Ronald W. Hernan, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-327 and 50-328

Enclosures: 1. Attendance List
2. TVA Handout

cc w/enclosures: See next page

DOCUMENT NAME: G:\PDII-2\SQN\meetsum 715.wpd

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure
"E" = Copy with attachment/enclosure "N" = No copy

OFFICE	PDII-2/PM	<input type="checkbox"/>	PDII-2/LA	<input checked="" type="checkbox"/> E	PDII-2/PD	<i>SP</i>	<input type="checkbox"/>
NAME	RHernan	<i>f</i>	BClayton	<i>ETD</i>	SPeterson		
DATE	7/16/99	<i>f</i>	7/16/99		7/16/99		

OFFICIAL RECORD COPY

270152
9907280022 990716
PDR ADDCK 05000327
P PDR



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 16, 1999

LICENSEE: Tennessee Valley Authority

FACILITY: Sequoyah Nuclear Plant, Units 1 and 2

SUBJECT: SUMMARY - JULY 15, 1999, MEETING TO DISCUSS TVA'S EVALUATION OF THE FEE STRUCTURE COMPARED WITH RECENT ACTUAL FEES AND THE NRC GUIDANCE IN ESTIMATING REVIEW EFFORT FOR LICENSING ACTIONS

On July 15, 1999, representatives of the Tennessee Valley Authority (TVA), the licensee for the Browns Ferry, Sequoyah, and Watts Bar Nuclear Plants, met in a public meeting with members of the U.S. Nuclear Regulatory Commission (NRC) staff at NRC Headquarters in Rockville, Maryland. TVA requested this meeting to brief the staff regarding their recent efforts in comparing actual licensing action review level of effort (over the past two years) against the example estimates given in the enclosure to Office of Nuclear Reactor Regulation (NRR) Office Letter (OL) No. 803. A list of attendees is given in Enclosure 1. The handout provided by TVA during the meeting is included as Enclosure 2.

TVA performed an evaluation of the NRC fee structure and a review of actual NRC billings during FY97 and FY98 for all three operating TVA nuclear plant sites. The billings included review of licensing actions submitted to NRC for approval and plant inspections conducted primarily by NRC Region II (see Enclosure 2). This meeting focused on the cost to TVA for review of licensing actions with detailed discussions of those reviews that required an extraordinary amount of NRC review time as measured by comparison to the estimated review times given in OL 803. The NRR Project Managers for Sequoyah and Watts Bar were present and discussed particular problems with the outlier review issues. The Lead Project Manager for OL 803 was also present.

The information presented by TVA at the meeting was very extensive and will be useful to the NRC in the next update to OL 803 and to understanding the reasons that some reviews in the past have required more resources than anticipated. This information may also be used in other current NRC initiatives involving the Project Manager function within NRR.

A handwritten signature in black ink that reads "Ronald W. Hernan".

Ronald W. Hernan, Senior Project Manager, Section 2
Project Directorate II
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-327 and 50-328

Enclosures: 1. Attendance List
2. TVA Handout

cc w/enclosures: See next page

NRC/TVA MEETING TO DISCUSS TVA'S EVALUATION OF THE FEE STRUCTURE
COMPARED WITH RECENT ACTUAL FEES AND THE NRC GUIDANCE IN ESTIMATING
REVIEW EFFORT FOR LICENSING ACTIONS

THURSDAY, JULY 15, 1999

ATTENDEES

<u>Name</u>	<u>Affiliation</u>
Ronald Hernan	NRC
Herb Berkow	NRC
Sheri Peterson	NRC
Ron Hernan	NRC
Bob Martin	NRC
Suzanne Black	NRC
Bill Reckley	NRC
Kathleen O'Donohue	NRC
Ralph H. Shell	TVA
Ernest Stembridge	TVA

ENCLOSURE 1

**Evaluation of the NRC Fee Structure for the Detection of Amendment
Review and Inspection Overcharges**

**Prepared By:
Ernest Stembridge**

May 25, 1999

ENCLOSURE 2

Table 1.1
NRC Target Hours vs. Range of invoiced Man Hours
Technical Complexity

		Low	Medium	High
		NRC	NRC	NRC
		BFN	BFN	BFN
Low		SQN	SQN	SQN
Medium		WBN	WBN	WBN
Medium		NRC	NRC	NRC
Medium		BFN	BFN	BFN
Medium		SQN	SQN	SQN
Medium		WBN	WBN	WBN
High		NRC	NRC	NRC
High		BFN	BFN	BFN
High		SQN	SQN	SQN
High		WBN	WBN	WBN

Note: Items that are bold indicate that the numbers exceeded the expected target.

**Attachment A: Results Summary for the Study of NRC Fees Assessed on
BFN**

12 Pages

BFN Technical Specification Changes for '97 & '98							
TS #	Description	Similarity Ranking			Technical Complexity		
		Low	Medium	High	Low	Medium	High
353	Power Range Neutron Monitor Upgrade		x				x
354	Oscillation Power Range Monitor		x				x
360	TIP Operability Requirements	x			x		
362	Changes to Instrument STI's			x			x
372	Administrative Section Changes	x					x
376	Extended Emergency DG(s)		x				x
377	MCPR Safety limit & Base Rev			x	x		
384	Power Uprate	x					x
386	Safety/Relief valve setpoint	x					x
387	Single Recirculation Loop Operation			x	x		
390	Change Refueling interval			x			x
391T	Temporary Extension of EDG	x			x		
393	Pressure-Temperature Curve Update			x			x
395	RHRSW LCO		x				x

Notes:

The similarity between an application and precedent can, for the current purposes, be categorized into three levels:

No or Low Similarity - There is either no precedent to apply, or major modification to the precedent license amendment that would be required for use in the application under consideration.

Medium Similarity - The review of the application could apply a precedent with limited technical modifications.

High Similarity - The review of the application could directly apply a precedent without technical modifications.

The technical complexity of a required review can also be categorized into three levels:

Low Complexity - includes changes to position titles in the TS administrative controls section and simple changes to setpoints or other TS details.

Medium Complexity - includes extensions of allowed outage times or surveillance test intervals, alternate action statements, reload related changes, or other changes which do not involve major changes or review of established NRC policies.

High Complexity - includes power rerates, significant restructuring of TS, changes that introduce significantly different analytical methodologies, and changes that are related to revising established NRC policies.

BFN Hours

Browns Ferry Nuclear Plant**NRC Guidance for Estimating Application Review Hours of Effort****Similarity Between Application and Precedent**

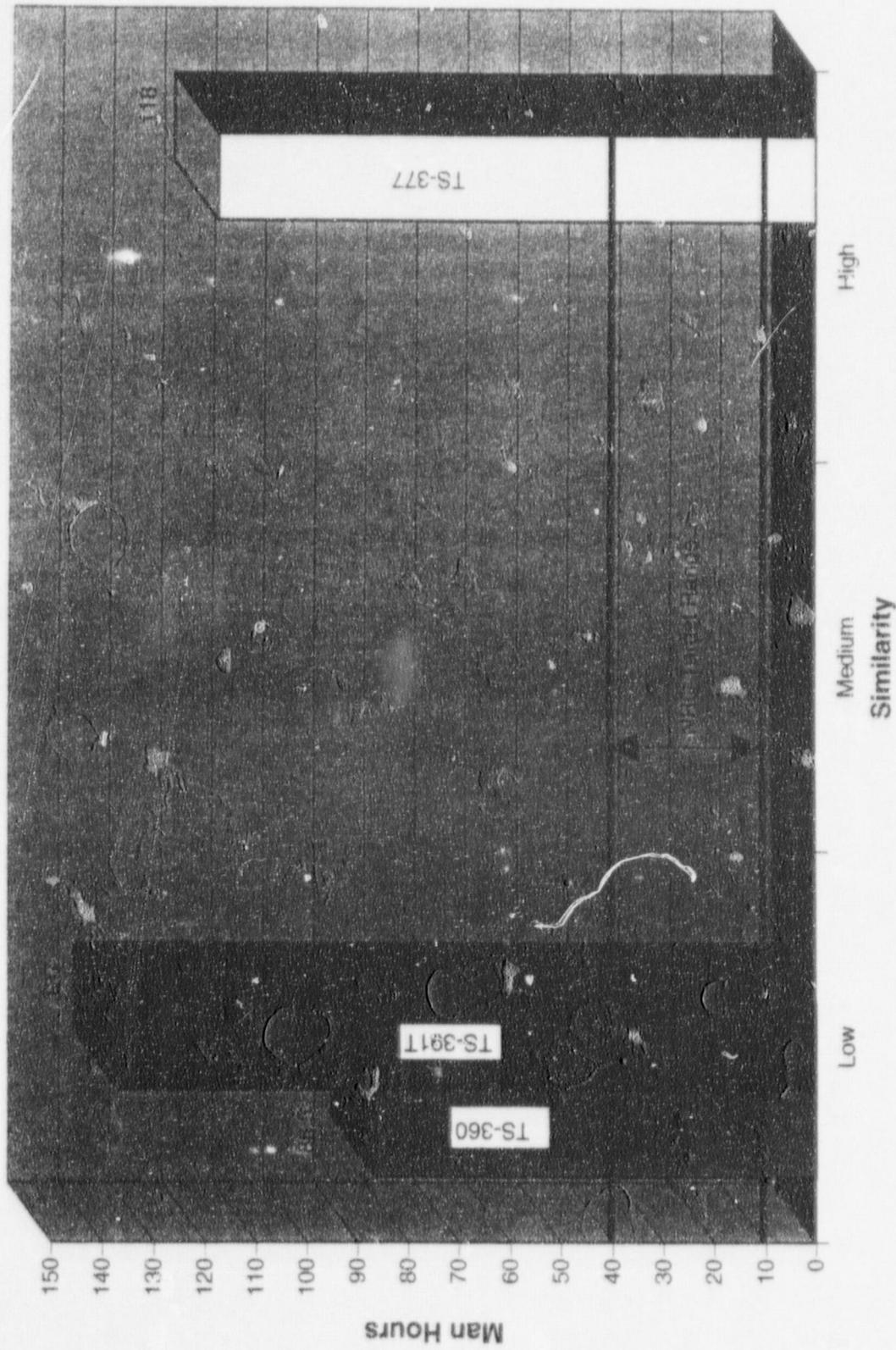
Technical Complexity		Risk Significance		Similarity Between Application and Precedent	
		No or Low	Medium	No or Low	Medium
and/or					
Low		10 - 40 hours	10 - 40 hours	10 - 20 hours	10 - 20 hours
Medium		40 - 120 hours	40 - 80 hours	20 - 60 hours	20 - 60 hours
High		> 120 hours	> 80 hours	> 60 hours	> 60 hours

NRC Target Hours vs. Invoiced Man Hours

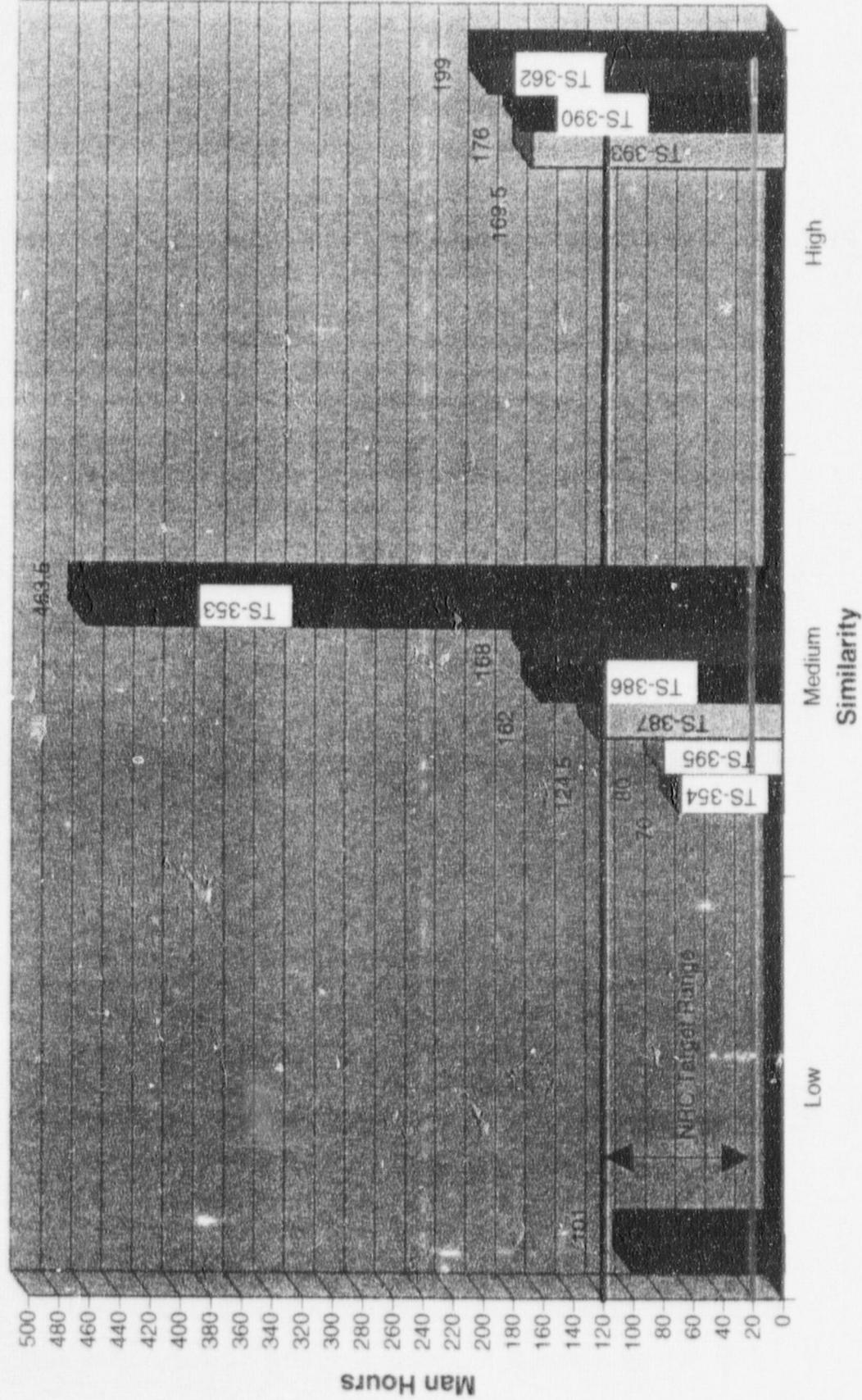
TS Change No.	Description	Similarity	Complexity	NRC Guidelines	Invoiced
TS-353	Power Range NM Upgrade	Medium	Medium	40 - 80 hours	463.5
TS-354	Oscillation Power Range Monitor	Medium	Medium	40 - 80 hours	70.0
TS-360	TIP Operability Requirements	Low	Low	10 - 40 hours	86.5
TS-362	Changes to Instrument STI's	High	Medium	20 - 60 hours	199.0
TS-372	Administrative Section Changes	Low	Medium	40 - 120 hours	101.0
TS-376	Extended emergency DG(s)	Medium	Medium	40 - 80 hours	168.0
TS-377	MCPR safety limit and bases rev	High	Low	10 - 20 hours	118.0
TS-384	Power Uprate	Medium	High	80 < hours < 120	2073.5
TS-386	Safety/Relief valve setpoint	Medium	Medium	40 - 80 hours	162.0
TS-387	Single recirculation loop operation	Medium	Medium	40 - 80 hours	124.5
TS-390	Change refueling interval	High	Medium	20 - 60 hours	176.0
TS-391T	Temporary Extension of EDG	Low	Low	10 - 40 hours	137.0
TS-393	Pressure-Temp. curve update	High	Medium	20 - 60 hours	169.5
TS-395	RHRSW LCO	Medium	Medium	40 - 80 hours	80.0

Note: Items that are bold indicate that the invoiced hours exceeded the expected target hours.

BFN
(Complexity - Low)



BFN (Complexity - Medium)



BFN

(Complexity - High)

2073.5

2240

2160

2080

2000

1920

1840

1760

1680

1600

1520

1440

1360

1280

1200

1120

1040

960

880

800

720

640

560

480

400

320

240

160

80

0

Man Hours

No Upper Limit



High
Medium
Similarity
Low

TS-395

Browns Ferry Nuclear Plant - NRC Fees

NRC Review	1997						1997 Total Mhrs
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Fees	Mhrs	
TECH SPEC CHANGES							
TS Change 372	\$ 5,568.00	43.5			\$ 192.00	1.5	\$ 5,956.50
<i>Subtotal</i>	\$ 5,568.00	43.5			\$ 192.00	1.5	\$ 5,956.50
 ISI							
ASME Second Inspection Interval	\$ 192.00	1.5	\$ 1,344.00	10.5	\$ 14,415.00	111.0	\$ 16,540.50
Program Revision			\$ 1,152.00	9.0	\$ 524.00	4.0	\$ 1,248.00
Contractor Fees			\$ 6,965.00		\$ 9,698.00		\$ 20,390.00
<i>Subtotal</i>	\$ 192.00	1.5	\$ 9,461.00	19.5	\$ 24,637.00	115.0	\$ 40,178.50
 ITS							
Improved Tech Spec	\$ 84,672.00	661.5	\$ 22,092.80	172.6	\$ 49,063.50	378.0	\$ 179,080.80
Contractor Fees	\$ 91,360.00		\$ 8,032.00				\$ 99,392.00
<i>Subtotal</i>	\$ 176,032.00	661.5	\$ 30,124.80	172.6	\$ 49,063.50	378.0	\$ 278,472.80
 RELIEF REQUESTS							
SPT-1 & SPT-4	\$ 2,048.00	16.0	\$ 1,344.00	10.5	\$ 384.00	3.0	\$ 2,048.00
ASME Section XI, Subsec IWE			\$ 128.00	1.0	\$ 1,822.00	14.0	\$ 1,728.00
Cycle 9 Outage					\$ 1,476.00		\$ 4,439.00
Contractor Fees							\$ 5,123.00
<i>Subtotal</i>	\$ 2,048.00	16.0	\$ 1,472.00	11.5	\$ 3,682.00	17.0	\$ 13,338.00
 INSPECTIONS							
IR 96-13							
Routine Fees	\$ 26,176.00		204.5				\$ 26,176.00
Non-Routine Fees	\$ 1,536.00		12.0				\$ 1,536.00

IR 97-01	Routine Fees	\$ 61,952.00	484.0						\$ 61,952.00	484.0	
IR 97-03	Non-Routine Fees										
	Routine Fees	\$ 73,664.00	575.5						\$ 73,664.00	575.5	
	Non-Routine Fees	\$ 512.00	4.0						\$ 512.00	4.0	
IR 97-04	Routine Fees	\$ 66,816.00	522.0						\$ 66,816.00	522.0	
	Non-Routine Fees										
IR 97-05	Routine Fees	\$ 44,224.00	345.5						\$ 44,224.00	345.5	
	Non-Routine Fees	\$ 576.00	4.5						\$ 576.00	4.5	
IR 97-06	Routine Fees	\$ 24,064.00	188.0						\$ 24,064.00	188.0	
	Non-Routine Fees	\$ 1,152.00	9.0						\$ 1,152.00	9.0	
IR 97-07	Routine Fees	\$ 48,384.00	378.0						\$ 48,384.00	378.0	
	Non-Routine Fees										
IR 97-08	Routine Fees	\$ 57,014.50	444.5						\$ 57,014.50	444.5	
	Non-Routine Fees										
IR 97-09	Routine Fees	\$ 66,024.00	504.0						\$ 66,024.00	504.0	
	Non-Routine Fees										
IR 97-10	Routine Fees	\$ 110,629.50	844.5						\$ 110,629.50	844.5	
	Non-Routine Fees	\$ 2,489.00	19.0						\$ 2,489.00	19.0	
IR 97-11	Routine Fees	\$ 55,020.00	420.0						\$ 55,020.00	420.0	
	Non-Routine Fees	\$ 655.00	5.0						\$ 655.00	5.0	
	Contractor Fees	\$ 14,884.00	\$ 290.00						\$ 15,174.00		
	<i>Subtotal</i>	\$ 89,664.00	700.5	\$ 200,676.00	1,451.5	\$ 130,904.50	1,019.5	\$ 234,817.50	1,792.5	\$ 656,062.00	4,964.0
	OPERATOR EXAMS										
	NRC Personnel	\$ 524.00	4.0						\$ 524.00	4.0	
	Contractor Fees										
	<i>Subtotal</i>	\$ 524.00	4.0						\$ 524.00	4.0	

Browns Ferry Nuclear Plant - NRC Fees

NRC Review	1st Qtr			2nd Qtr			3rd Qtr			4th Qtr			1998 Total		
	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees
TECH SPEC CHANGe's															
TS Change 354					\$ 620.00		5.0	\$ 372.00		3.0	\$ 992.00		8.0		
TS Change 360					\$ 558.00		4.5	\$ 372.00		3.0	\$ 930.00		7.5		
TS Change 372			\$ 1,179.00	9.0	\$ 2,620.00	20.0					\$ 3,799.00		29.0		
TS Change 395	\$ 9,694.00	74.0	\$ 786.00	6.0							\$ 10,480.00		80.0		
Subtotal	\$ 9,694.00	74.0	\$ 1,965.00	15.0	\$ 3,798.00	29.5	\$ 744.00	6.0	\$ 16,201.00	124.5					
ISI															
ASME 2nd Inspection Interval															
Risk-Informed															
Program Revision															
Contractor Fees	\$ 2,586.00				\$ 1,243.00			\$ 1,240.00		10.0	\$ 1,240.00		10.0		
Subtotal	\$ 2,586.00		\$ 524.00	4.0	\$ 6,107.00	39.0	\$ 7,050.00	54.0	\$ 16,267.00	97.0					
ITS															
Improved Tech Spec	\$ 85,805.00	655.0	\$ 111,612.00	852.0	\$ 14,475.50	110.5					\$ 211,892.50		1,617.5		
Subtotal	\$ 85,805.00	655.0	\$ 111,612.00	852.0	\$ 14,475.50	110.5					\$ 211,892.50		1,617.5		
RELIEF REQUESTS															
2-1SI-6 Rev 1	\$ 982.50	7.5	\$ 8,384.00	262.00	2.0	\$ 655.00	5.0	\$ 868.00	7.0	\$ 1,785.00		14.0			
Revised 3-1SI-1	\$ 862.00				64.0	\$ 5,008.50	38.5				\$ 14,375.00		110.0		
Contractor Fees											\$ 2,093.00				
Subtotal	\$ 1,844.50	7.5	\$ 8,646.00	66.0	\$ 5,663.50	43.5	\$ 2,099.00	7.0	\$ 18,253.00	124.0					

RELIEF REQUESTS

2-1SI-6 Rev 1	\$ 982.50	7.5	\$ 262.00	20	\$ 655.00	50	\$ 868.00	7.0	\$ 1,785.00	14.0
Revised 3-1SI-1				64.0	\$ 5,008.50	38.5			\$ 14,375.00	110.0
Contractor Fees	\$ 862.00						\$ 1,231.00		\$ 2,093.00	
Subtotal	\$ 1,844.50	7.5	\$ 8,646.00	66.0	\$ 5,663.50	43.5	\$ 2,099.00	7.0	\$ 18,253.00	124.0

INSPECTIONS

Routine Fees	\$ 63,993.50	488.5	\$ 63,993.50	488.5
Non-Routine Fees	\$ 524.00	4.0	\$ 524.00	4.0
IR 97-17				
Routine Fees			\$ 0.00	0.0
Non-Routine Fees			\$ 0.00	0.0
IR 97-18			\$ 0.00	0.0
Routine Fees			\$ 0.00	0.0
Non-Routine Fees			\$ 0.00	0.0
IR 98-01			\$ 96,219.50	734.5
Routine Fees	\$ 96,219.50	734.5		
Non-Routine Fees				
IR 98-02			\$ 73,818.50	563.5
Routine Fees			\$ 262.00	2.0
Non-Routine Fees			\$ 262.00	2.0
IR 98-03			\$ 65,565.50	500.5
Routine Fees			\$ 262.00	2.0
Non-Routine Fees			\$ 262.00	2.0
IR 98-04			\$ 75,348.50	575.5
Routine Fees			\$ 7,336.00	56.0
Non-Routine Fees			\$ 6,568.00	51.5
IR 98-05			\$ 50,726.00	400.5
Routine Fees			\$ 6,568.00	51.5
Non-Routine Fees			\$ 4,960.00	40.0
IR 98-06			\$ 71,094.00	573.0
Routine Fees			\$ 4,960.00	40.0
Non-Routine Fees			\$ 4,960.00	40.0
IR 98-10			\$ 8,866.00	71.5
Routine Fees			\$ 8,866.00	71.5
Non-Routine Fees				
IR 98-12			\$ 9,920.00	80.0
Routine Fees			\$ 9,920.00	80.0
Non-Routine Fees				
IR 98-99			\$ 18,667.50	142.5
Routine Fees			\$ 16,802.00	135.5
Non-Routine Fees			\$ 1,688.00	
Resident Fees				\$ 216.5
Contractor Fees				\$ 1,688.00
Subtotal	\$ 160,737.00	1,227.0	\$ 158,575.50	1,210.5
			\$ 101,698.50	771.0
			\$ 178,980.00	1,433.0
			\$ 599,991.00	4,641.5

TOTALS BY QUARTER

		TOTAL		
1997	1st Qtr	Fees	\$ 290,949.00	Mhrs 1,558.5
	2nd Qtr	Fees	\$ 275,845.80	Mhrs 1,921.6
	3rd Qtr	Fees	\$ 240,982.00	Mhrs 1,760.0
	4th Qtr	Fees	\$ 308,543.00	Mhrs 2,299.0
	<i>Subtotal</i>	Fees	\$ 1,116,319.80	Mhrs 7,539.1
1998	1st Qtr	Fees	\$ 351,318.50	Mhrs 2,655.5
	2nd Qtr	Fees	\$ 372,760.50	Mhrs 2,845.5
	3rd Qtr	Fees	\$ 299,661.50	Mhrs 2,311.5
	4th Qtr	Fees	\$ 249,939.00	Mhrs 1,976.5
	<i>Subtotal</i>	Fees	\$ 1,273,679.50	Mhrs 9,789.0
	Total	Fees	\$ 2,389,999.30	Mhrs 17,328.1

**Attachment B: Results Summary for the Study of NRC Fees Assessed on
SQN**

13 Pages

SQN Technical Specification Changes for '97 & '98

TS #	Description	Similarity Ranking			Technical Complexity		
		Low	Medium	High	Low	Medium	High
94-15	Delete PASS license cond	x					x
95-19	Sect. 6.0 upgrade to MERITS		x			x	
96-01	Fuel Conversion		x				x
96-02	Reduction of ice weight		x			x	
96-03	CST applicability	x			x		
96-04	Delete fire protection			x		x	
96-05	Eliminate cycle specific APC	x				x	
96-06	Delete offsite circuit X-fer	x				x	
96-07	Code & atmosphere safety 3%			x		x	
96-08	7-day DG AOT	x					x
96-09	Remove OT shift hour req.		x		x		
97-01	Fuel storage vault enrichment	x				x	
97-02	CSS system SR revisions		x			x	
97-03	Addition of LCO for FWI		x			x	
97-04	Relocate snubber SRs			x		x	
97-06	DG 24-hour SR at power			x		x	
97-07	MSIV SR addition		x			x	
98-01	Deletion of PORV MODE 4 Req	x				x	
98-02	Iodine Reduction SG plugging			x		x	
98-06	EDG relay & timers SR rev	x				x	

Notes:

The similarity between an application and precedent can, for the current purposes, be categorized into three levels:

No or Low Similarity - There is either no precedent to apply, or major modification to the precedent license amendment that would be required for use in the application under consideration.

Medium Similarity - The review of the application could apply a precedent with limited technical modifications.

High Similarity - The review of the application could directly apply a precedent without technical modifications.

The technical complexity of a required review can also be categorized into three levels:

Low Complexity - includes changes to position titles in the TS administrative controls section and simple changes to setpoints or other TS details.

Medium Complexity - includes extensions of allowed outage times or surveillance test intervals, alternate action statements, reload related changes, or other changes which do not involve major changes or review of established NRC policies.

High Complexity - includes power rerates, significant restructuring of TS, changes that introduce significantly different analytical methodologies, and changes that are related to revising established NRC policies.

SQN Hours

Sequoyah Nuclear Plant

NRC Guidance for Estimating Application Review Hours of Effort

Similarity Between Application and Precedent

Technical Complexity

and/or	No or Low	Medium	High	
Risk Significance	Low Medium High	10 - 40 hours 40 - 120 hours > 120 hours	10 - 40 hours 40 - 80 hours > 80 hours	10 - 20 hours 20 - 60 hours > 60 hours

NRC Target Hours vs. Invoiced Man Hours

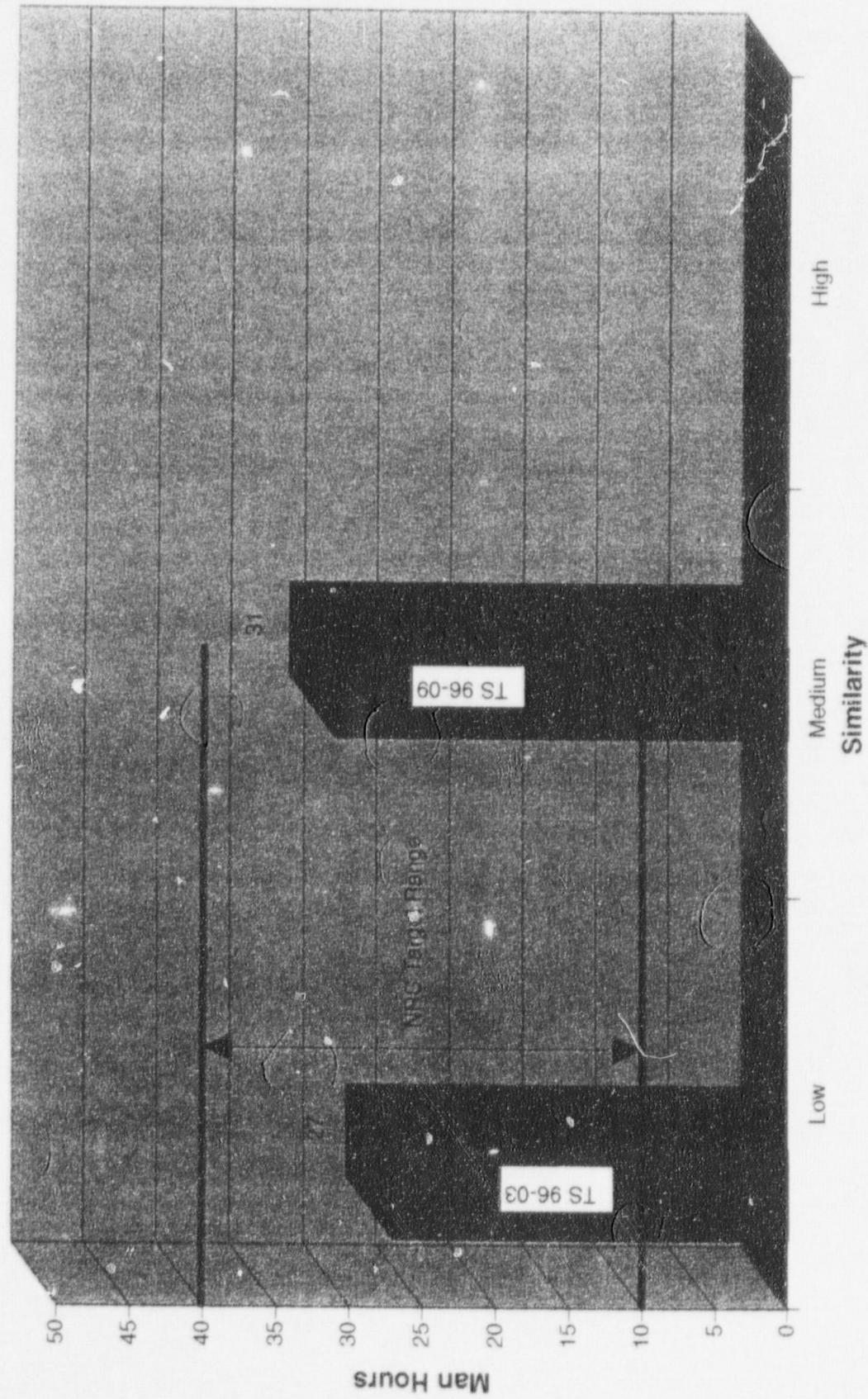
TS Change No.	Description	Similarity	Complexity	NRC Guidelines	Invoiced
TS 94-15	Delete PASS License cond.	Low	High	> 120 hours	244.0
TS 95-19	Section 6.0 upgrade to MERITS	Medium	Medium	40 - 80 hours	349.4
TS 96-01	Fuel Conversion	Medium	High	80 < hours < 120	1061.0
TS 96-02	Reduction of Ice Weight	Medium	Medium	40 - 80 hours	185.0
TS 96-03	CST applicability	Low	Low	10 - 40 hours	27.0
TS 96-04	Delete fire protection	High	Medium	20 - 60 hours	52.0
TS 96-05	Eliminate cycle specific APC	Low	Medium	40 - 120 hours	98.0
TS 96-06	Delete offsite circuit X-fer	Low	Medium	40 - 120 hours	32.0
TS 96-07	Code & atmosphere safety 3%	High	Medium	20 - 60 hours	209.0
TS 96-08	7-day DG AOT	Low	High	> 120 hours	585.0
TS 96-09	Remove OT shift hour req.	Medium	Low	10 - 40 hours	51.0
TS 97-01	Fuel Storage Vault Enrichment	Low	Medium	40 - 120 hours	86.0
TS 97-02	CSS system SR revisions	Medium	Medium	40 - 80 hours	11.0
TS 97-03	Addition of LCO for FWI	Medium	Medium	40 - 80 hours	27.0
TS 97-04	Relocate snubber SRs	High	Medium	20 - 60 hours	32.0

SQN Hours

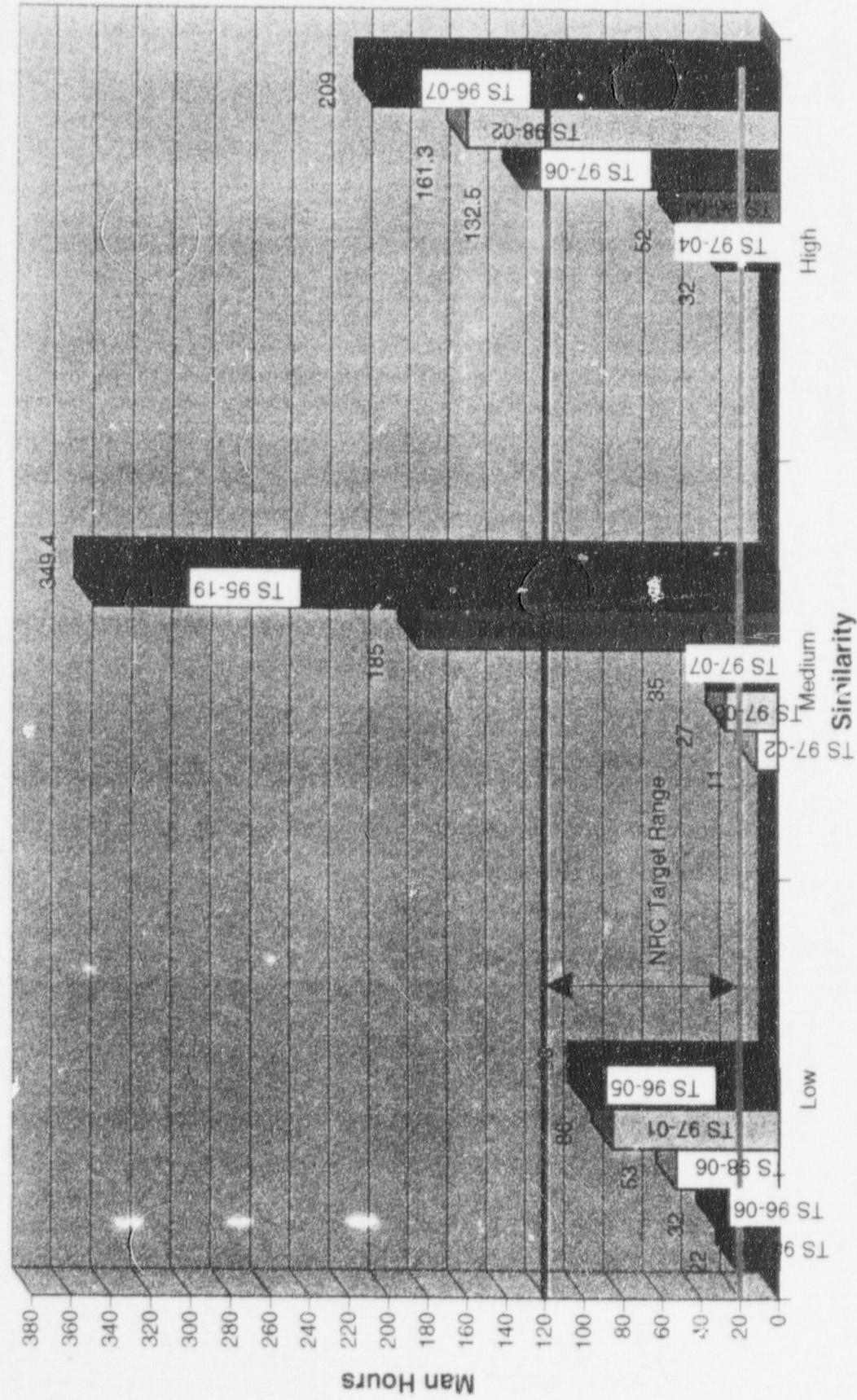
							SQN Hours
TS 97-06	DG 24-hour SR at power	High		Medium		20 - 60 hours	132.5
TS 97-07	MSiV SR addition	Medium		Medium		40 - 80 hours	35.0
TS 98-01	Deletion of PORV MODE 4 Req.	Low		Medium		40 - 120 hours	22.0
TS 98-02	Iodine Reduction SG plugging	High		Medium		20 - 60 hours	161.3
TS 98-06	EDG relay & timers SR rev	Low		Medium		40 - 120 hours	53.0

Note: Items that are bold indicate that the invoiced hours exceeded the expected target hours.

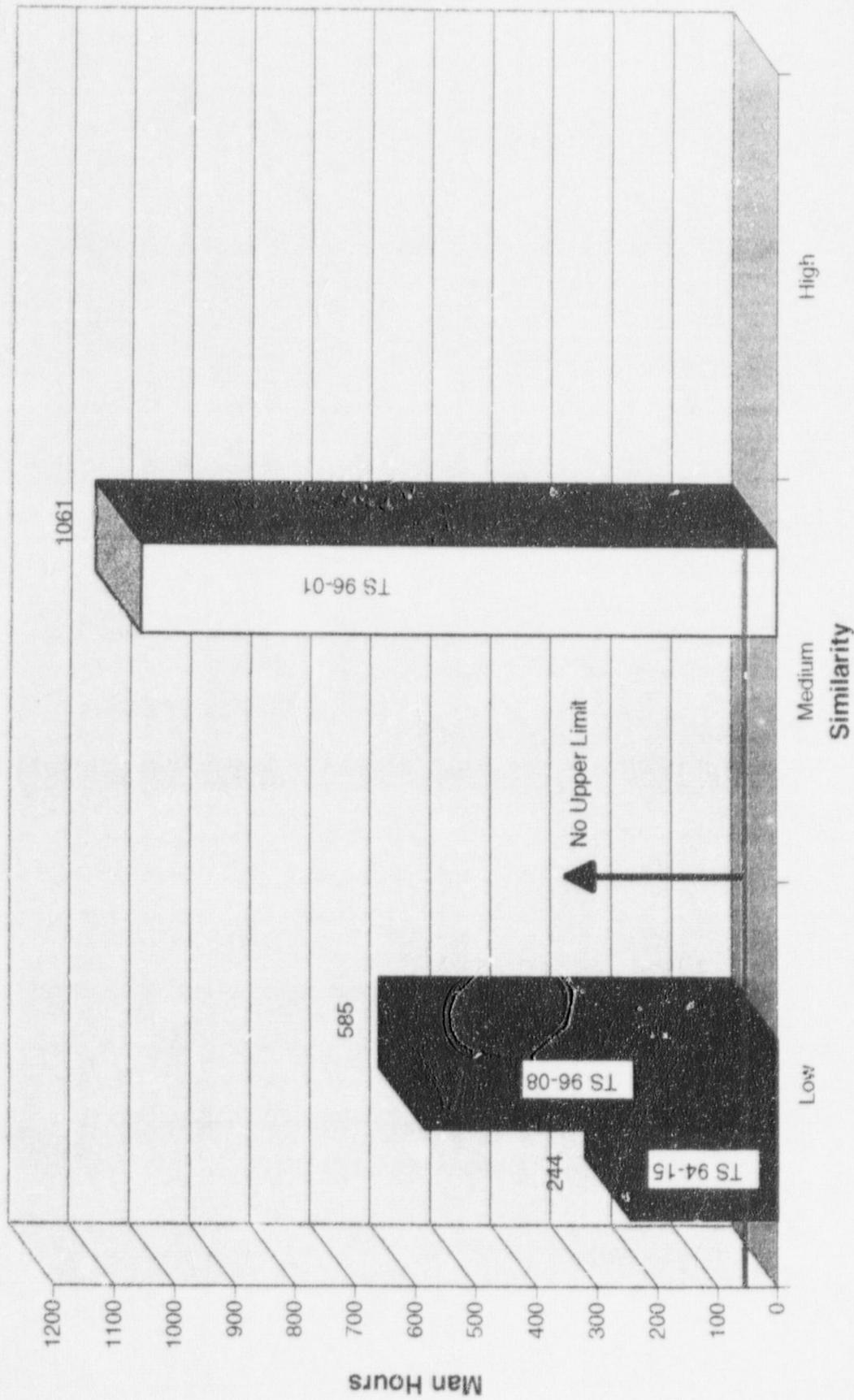
SQN
(Complexity - Low)



SQN (Complexity - Medium)



SQN
(Complexity - High)



Sequoayah Nuclear Plant - NRC Fees

NRC Review	1997						1997 Total
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Fees	Mhrs	
TECH SPEC CHANGES	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees
TS Change 95-19	\$ 5,363.20	41.9	\$ 832.00	6.5	\$ 1,572.00	12.0	\$ 7,767.20
TS Change 96-01	\$ 51,200.00	400.0	\$ 27,264.00	213.0			\$ 78,464.00
TS Change 96-02	\$ 10,624.00	83.0	\$ 3,328.00	26.0			\$ 13,952.00
TS Change 96-04	\$ 256.00	2.0					\$ 6,698.00
TS Change 96-05	\$ 10,496.00	82.0	\$ 1,792.00	14.0			\$ 12,288.00
TS Change 96-06							
TS Change 96-07	\$ 7,936.00	62.0	\$ 3,840.00	20.0	\$ 5,502.00	42.0	\$ 18,064.00
TS Change 96-08	\$ 2,304.00	18.0	\$ 2,944.00	23.0	\$ 1,036.00	8.0	\$ 12,772.50
TS Change 97-01							
TS Change 97-02							
<i>Subtotal</i>	\$ 88,179.20	688.9	\$ 50,240.00	392.5	\$ 17,416.00	134.0	\$ 15,523.50
 ISI							
10-Year Program Review	\$ 512.00	4.0	\$ 768.00	6.0	\$ 786.00	6.0	\$ 917.00
Contractor Fees	\$ 349.00		\$ 2,237.00		\$ 372.00		\$ 4,670.00
<i>Subtotal</i>	\$ 861.00	4.0	\$ 3,005.00	6.0	\$ 1,158.00	6.0	\$ 5,587.00
 RELIEF REQUESTS							
Subsection IWE	\$ 3,072.00	24.0	\$ 1,280.00	10.0			
<i>Subtotal</i>	\$ 3,072.00	24.0	\$ 1,280.00	10.0			
 INSPECTIONS							
IR 96-12							
Routine Fees	\$ 72,192.00	564.0					\$ 72,192.00
Non-Routine Fees							
IR 96-14							
Routine Fees	\$ 56,896.00	444.5					\$ 56,896.00

Non-Routine Fees	\$ 5,376.00	42.0	\$ 5,376.00	42.0
Routine Fees	\$ 24,320.00	190.0	\$ 24,320.00	190.0
Non-Routine Fees				
Routine Fees	\$ 13,120.00	102.5	\$ 13,120.00	102.5
Non-Routine Fees	\$ 2,688.00	21.0	\$ 2,688.00	21.0
Routine Fees	\$ 51,008.00	398.5	\$ 51,008.00	398.5
Non-Routine Fees	\$ 7,552.00	59.0	\$ 7,552.00	59.0
Routine Fees	\$ 58,368.00	456.0	\$ 58,368.00	456.0
Non-Routine Fees	\$ 10,368.00	81.0	\$ 10,368.00	81.0
Routine Fees	\$ 17,024.00	133.0	\$ 17,024.00	133.0
Non-Routine Fees	\$ 2,304.00	18.0	\$ 2,304.00	18.0
Routine Fees	\$ 60,800.00	475.0	\$ 60,800.00	475.0
Non-Routine Fees	\$ 37,824.00	295.5	\$ 37,824.00	295.5
Routine Fees	\$ 48,512.00	379.0	\$ 48,512.00	379.0
Non-Routine Fees	\$ 11,904.00	93.0	\$ 11,904.00	93.0
Routine Fees	\$ 896.00	7.0	\$ 896.00	7.0
Non-Routine Fees	\$ 7,424.00	58.0	\$ 7,424.00	58.0
Routine Fees	\$ 139,328.00	1088.5	\$ 139,328.00	1088.5
Non-Routine Fees	\$ 12,800.00	100.0	\$ 12,800.00	100.0
Routine Fees	\$ 13,056.00	102.0	\$ 13,056.00	102.0
Non-Routine Fees				
Routine Fees	\$ 60,114.50	464.5	\$ 60,114.50	464.5
Non-Routine Fees	\$ 17,082.00	132.0	\$ 17,082.00	132.0
Routine Fees	\$ 45,544.00	350.0	\$ 45,544.00	350.0
Non-Routine Fees				
Routine Fees	\$ 54,365.00	415.0	\$ 54,365.00	415.0
Non-Routine Fees	\$ 6,026.00	46.0	\$ 6,026.00	46.0

Sequoyah Nuclear Plant - NRC Fees

NRC Review	1998			1998			1998 Total		
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Fees	Mhrs	Fees	Mhrs	Fees
TECH SPEC CHANGES									
TS Change 94-15	\$ 15,720.00	120.0	\$ 8,908.00		\$ 1,364.00	110	\$ 2,852.00	23.0	\$ 4,216.00
TS Change 95-19					\$ 1,048.00	80			\$ 25,676.00
TS Change 96-03	\$ 5,109.00	39.0	\$ 6,353.50		\$ 48.5	\$ 13,106.00	104.0	\$ 30,380.00	23.0
TS Change 96-08							\$ 3,844.00	31.0	\$ 4,092.00
TS Change 96-09									\$ 54,948.50
TS Change 97-02	\$ 1,048.00	8.0							\$ 436.5
TS Change 97-03	\$ 524.00	4.0	\$ 3,013.00	23.0					\$ 3,844.00
TS Change 97-04	\$ 524.00	4.0	\$ 262.00	2.0	\$ 3,294.00	26.0			\$ 31.0
TS Change 97-06	\$ 524.00	4.0	\$ 10,742.00	82.0	\$ 6,091.50	46.5			\$ 23.0
TS Change 97-07	\$ 524.00	4.0	\$ 917.00	7.0			\$ 2,976.00	24.0	\$ 23.0
TS Change 98-01							\$ 2,728.00	22.0	\$ 17,357.50
TS Change 98-02					\$ 15,923.20	120.3	\$ 5,518.00	41.0	\$ 132.5
TS Change 98-06							\$ 2,232.00	18.0	\$ 21,441.20
<i>Subtotal</i>	\$ 23,973.00	183.0	\$ 30,195.50	230.5	\$ 40,826.70	315.8	\$ 54,622.00	427.0	\$ 149,617.20
ISI									
10-Year Program Review	\$ 1,834.00	14.0	\$ 2,882.00	22.0				\$ 4,716.00	36.0
Contractor Fees	\$ 85.00							\$ 85.00	
<i>Subtotal</i>	\$ 1,919.00	14.0	\$ 2,882.00	22.0				\$ 4,801.00	36.0
RELIEF REQUESTS									
IST Relief Request	\$ 262.00	2.0	\$ 2,358.00	18.0	\$ 4,847.00	37.0		\$ 7,467.00	57.0
ASME Relief Request					\$ 2,358.00	18.0		\$ 2,358.00	18.0
<i>Subtotal</i>	\$ 262.00	2.0	\$ 2,358.00	18.0	\$ 7,205.00	55.0		\$ 9,825.00	75.0

INSPECTIONS							
IR 97-17	Routine Fees	\$ 55,413.00	423.0		\$ 55,413.00	423.0	
	Non-Routine Fees	\$ 4,323.00	33.0		\$ 4,323.00	33.0	
IR 97-18	Routine Fees	\$ 49,452.50	377.5		\$ 49,452.50	377.5	
	Non-Routine Fees	\$ 4,192.00	32.0		\$ 4,192.00	32.0	
IR 98-01	Routine Fees	\$ 59,932.50	457.5		\$ 59,932.50	457.5	
	Non-Routine Fees	\$ 3,406.00	26.0		\$ 3,406.00	26.0	
IR 98-02	Routine Fees	\$ 4,716.00	36.0		\$ 4,716.00	36.0	
	Non-Routine Fees	\$ 20,436.00	156.0		\$ 20,436.00	156.0	
IR 98-03	Routine Fees	\$ 63,600.50	485.5		\$ 63,600.50	485.5	
	Non-Routine Fees	\$ 8,122.00	62.0		\$ 8,122.00	62.0	
IR 98-04	Routine Fees	\$ 42,706.00	326.0		\$ 42,706.00	326.0	
	Non-Routine Fees	\$ 5,567.50	42.5		\$ 5,567.50	42.5	
IR 98-05	Routine Fees	\$ 59,971.80	457.8	\$ 4,716.00	36.0		
	Non-Routine Fees				\$ 64,687.80	493.8	
IR 98-06	Routine Fees	\$ 113,249.50	864.5		\$ 113,249.50	864.5	
	Non-Routine Fees	\$ 5,567.50	42.5		\$ 5,567.50	42.5	
IR 98-07	Routine Fees	\$ 67,923.50	518.5		\$ 67,923.50	518.5	
	Non-Routine Fees	\$ 8,908.00	68.0		\$ 8,908.00	68.0	
IR 98-08	Routine Fees	\$ 40,895.00	325.0	\$ 40,895.00	325.0		
	Non-Routine Fees	\$ 5,017.00	37.5	\$ 5,017.00	37.5		
IR 98-09	Routine Fees	\$ 70,060.00	565.0	\$ 70,060.00	565.0		
	Non-Routine Fees	\$ 6,634.00	53.5	\$ 6,634.00	53.5		
IR 98-12	Routine Fees	\$ 5,580.00	45.0	\$ 5,580.00	45.0		
	Non-Routine Fees						

TOTALS BY QUARTER

TOTAL					
1997	1st Qtr	Fees	\$ 472,584.46	Mhrs	3,226.4
	2nd Qtr	Fees	\$ 222,141.00	Mhrs	1,718.0
	3rd Qtr	Fees	\$ 388,509.50	Mhrs	2,919.0
	4th Qtr	Fees	\$ 208,684.00	Mhrs	1,559.0
	<i>Subtotal</i>	Fees	\$ 1,291,918.96	Mhrs	9,422.4
1998	1st Qtr	Fees	\$ 205,231.00	Mhrs	1,368.0
	2nd Qtr	Fees	\$ 364,642.80	Mhrs	2,502.8
	3rd Qtr	Fees	\$ 295,567.20	Mhrs	2,279.3
	4th Qtr	Fees	\$ 273,638.00	Mhrs	2,185.5
	<i>Subtotal</i>	Fees	\$ 1,139,079.00	Mhrs	8,335.6
Total		Fees	\$ 2,430,997.96	Mhrs	17,758.0

**Attachment C: Results Summary for the Study of NRC Fees Assessed on
WBN**

13 Pages

WBN Technical Specification Changes for '97 & '98							
TS #	Description	Similarity Ranking			Technical Complexity		
		Low	Medium	High	Low	Medium	High
95-015	Slave Relay Test Frequency	x				x	-
98-024							
96-010	Rerack Spent Fuel Pit		x				x
96-010	Fuel Cask Pit Shield			x		x	
96-011	Appendix J, Option B Testing		x			x	
96-018	Online Testing of DGs & Battery		x			x	
96-021							
97-001	Tritium (TPBAR) Lead Test	x					x
97-002	Cycle 2 Reload	x				x	
97-004	PT Limits Exemption & Amendment		x			x	
97-008	F(Q) (Burnup) into COLR			x		x	
97-012	Atmos DMP VLVS/Air Supply	x				x	
98-002	New Fuel Enrichment Increase - 5%		x			x	
98-006	Flux High Neg Rate Trip Deletion		x			x	
98-007	TD AFW Surv. @ 1092 psig			x	x		
98-008	Cold OV-Press Mitigation in Mode 4		x			x	
98-011	Hydrogen Igniters	x				x	
98-014	Ice Flow Blockage SR 3.6.11.4		x			x	
98-027	Inlet Door Position Monitoring System	x				x	

Notes:

The similarity between an application and precedent can, for the current purposes, be categorized into three levels:

No or Low Similarity - There is either no precedent to apply, or major modification to the precedent license amendment that would be required for use in the application under consideration.

Medium Similarity - The review of the application could apply a precedent with limited technical modifications.

High Similarity - The review of the application could directly apply a precedent without technical modifications.

The technical complexity of a required review can also be categorized into three levels:

Low Complexity - includes changes to position titles in the TS administrative controls section and simple changes to setpoints or other TS details.

Medium Complexity - includes extensions of allowed outage times or surveillance test intervals, alternate action statements, reload related changes, or other changes which do not involve major changes or review of established NRC policies.

High Complexity - includes power rerates, significant restructuring of TS, changes that introduce significantly different analytical methodologies, and changes that are related to revising established NRC policies.

Watts Bar Nuclear Plant

NRC Guidance for Estimating Application Review Hours of Effort

Similarity Between Application and Precedent

Technical Complexity

and/or

No or Low

Medium

High

Risk Significance

Low	10 - 40 hours	10 - 40 hours	10 - 20 hours
Medium	40 - 120 hours	40 - 80 hours	20 - 60 hours
High	> 120 hours	> 80 hours	> 60 hours

Low	10 - 40 hours	10 - 40 hours	10 - 20 hours
Medium	40 - 120 hours	40 - 80 hours	20 - 60 hours
High	> 120 hours	> 80 hours	> 60 hours

NRC Target Hours vs. Invoiced Man Hours

TS Change No.	Description	Similarity	Complexity	NRC Guidelines	Invoiced
TS 95-015	Slave Relay Test Frequency	Low	Medium	40 - 120 hours	579.5
TS 98-024					
TS 96-010	Rerack Spent Fuel Pit	Medium	High	80 < hours < 120	1018.0
TS 96-010	Fuel Cask Pit Shield	High	Medium	20 - 60 hours	92.5
TS 96-011	Appendix J, Option B Testing	Medium	Medium	40 - 80 hours	80.0
TS 96-018	Online Testing of DGs & Battery	Medium	Medium	40 - 80 hours	311.0
TS 96-021					
TS 97-001	Tritium (TPBAR) Lead Test	Low	High	> 120 hours	866.0
TS 97-002	Cycle 2 Reload	Low	Medium	40 - 120 hours	140.0
TS 97-004	PT Limits Exemption & Amend	Medium	Medium	40 - 80 hours	34.0
TS 97-008	F(Q) (Burnup) into COLR	High	Medium	20 - 60 hours	41.0
TS 97-012	Atmos DMP VLVS/Air Supply	Low	Medium	40 - 120 hours	68.0
TS 98-002	New Fuel Enrich Increase - 5%	Medium	Medium	40 - 80 hours	90.0

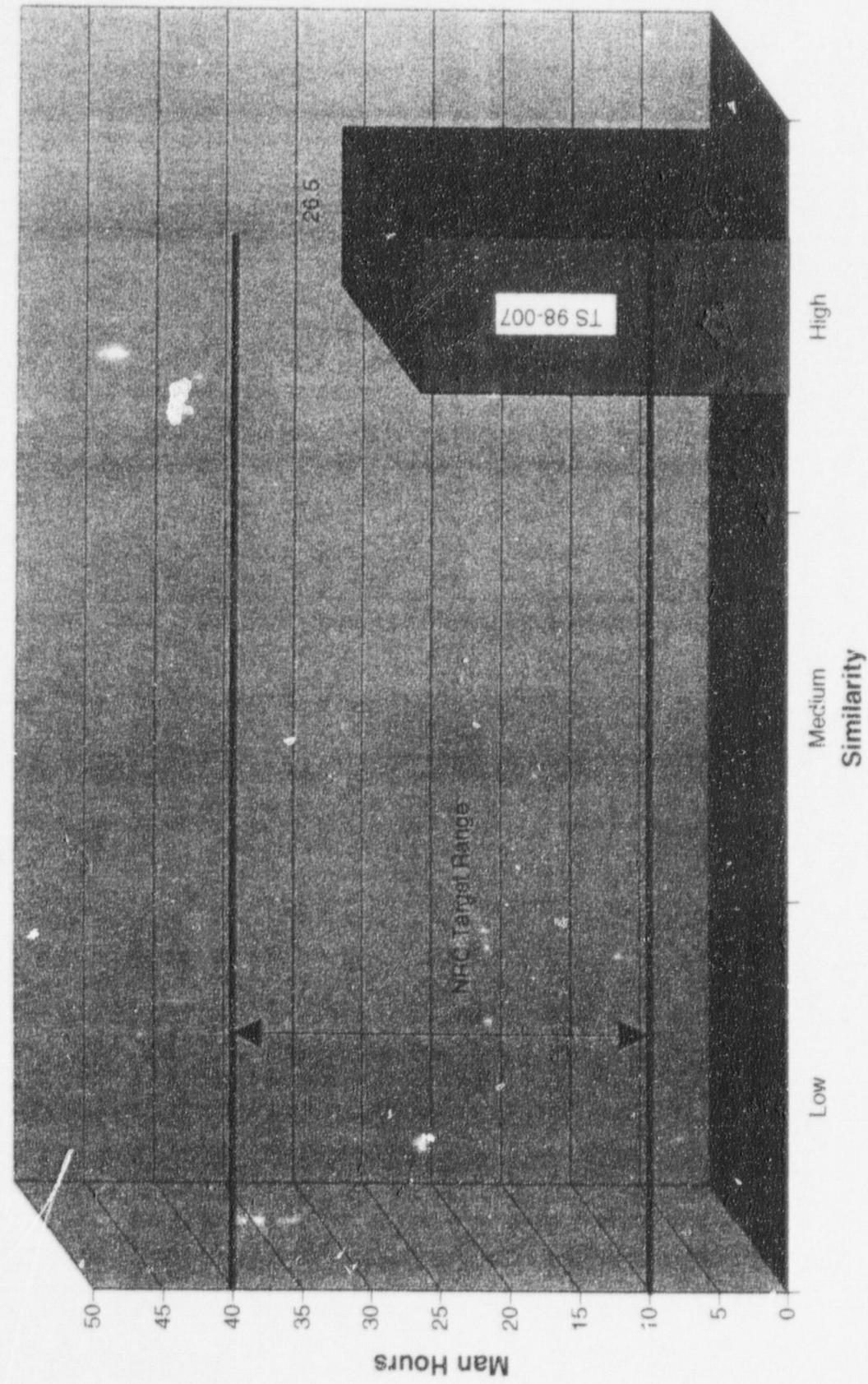
WBN Hours

				Medium	Medium	Medium	40 - 80 hours	40 - 80 hours	88.0
				High	Low	Low	10 - 20 hours	10 - 20 hours	26.5
TS 98-006	Flux High Neg Rate Trip Deletion								
TS 98-007	TD & FW Surv. @ 1092 psig								
TS 98-008	Cold OV Press Mitigate - Mode 4			Medium	Medium	Medium	40 - 80 hours	40 - 80 hours	52.5
TS 98-011	Hydrogen Igniters			Low	Medium	Medium	40 - 120 hours	40 - 120 hours	88.0
TS 98-014	Ice Flow Blockage SR 3.6.11.4			Medium	Medium	Medium	40 - 80 hours	40 - 80 hours	52.0
TS 98-027	Inlet Door Position Mont. System			Low	Medium	Medium	40 - 120 hours	40 - 120 hours	38.0

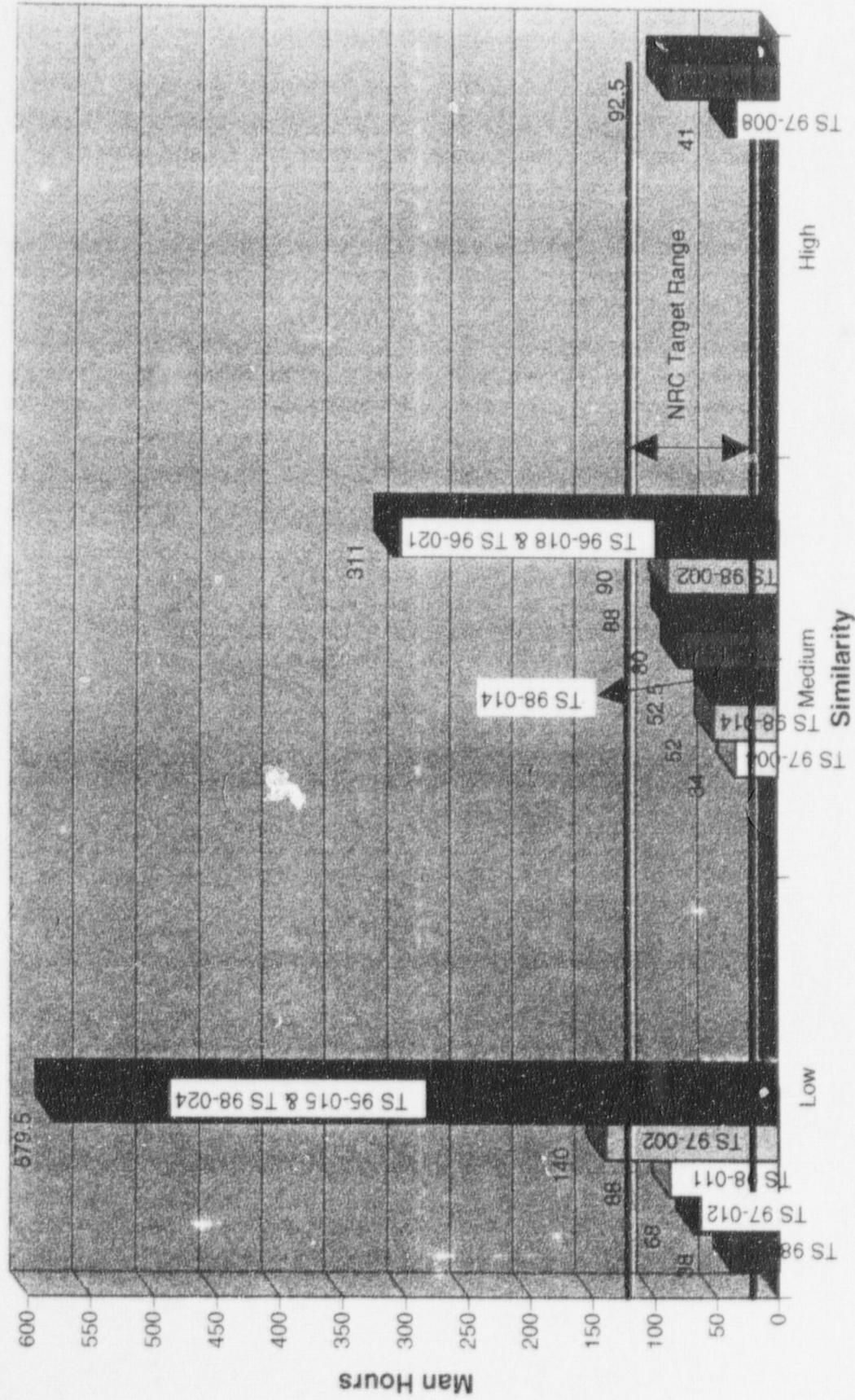
Note: Items that are bold indicate that the invoiced hours exceeded the expected target hours.

WBN

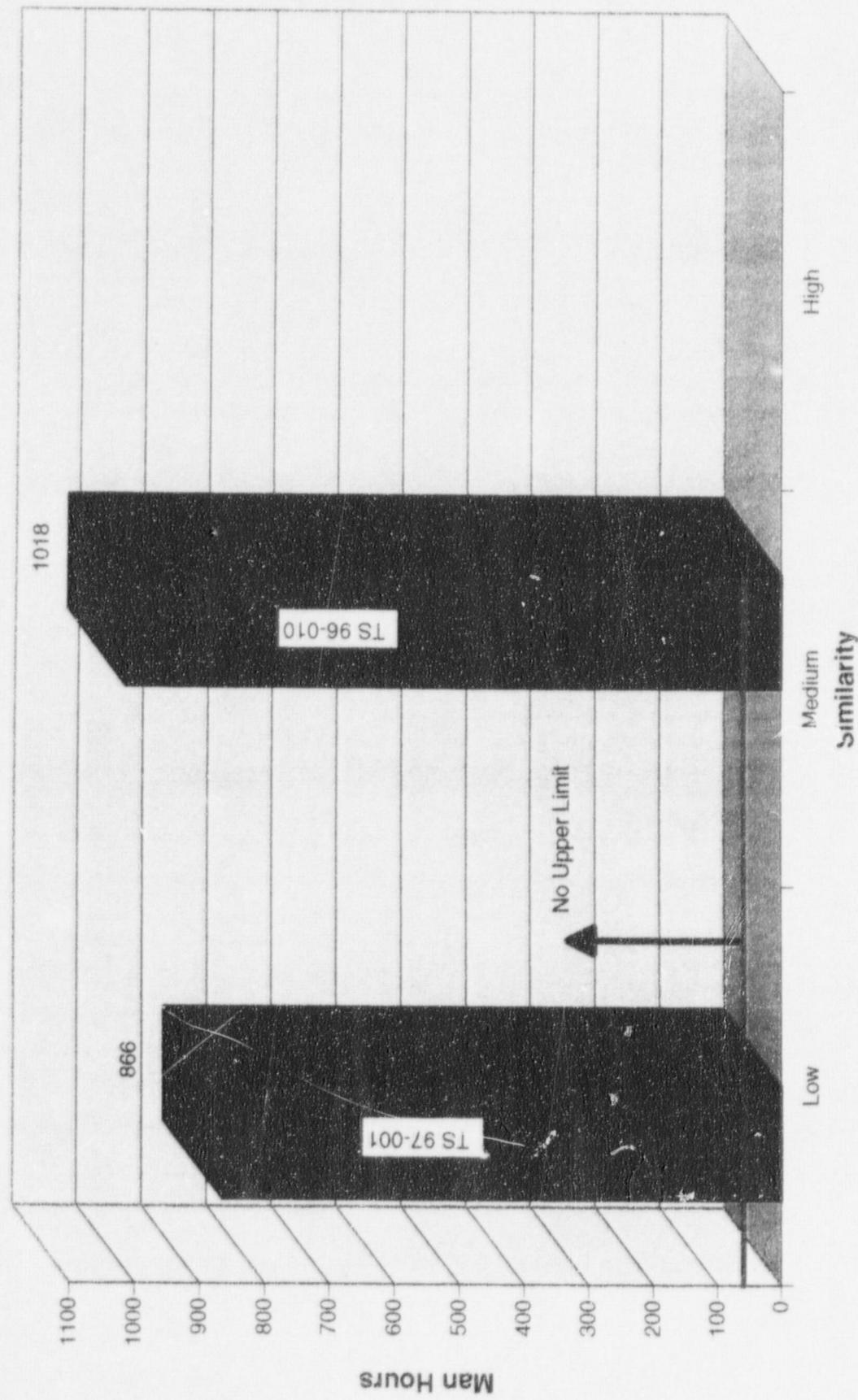
(Complexity - Low)



WBN
(Complexity - Medium)



WBN **(Complexity - High)**



Watts Bar Nuclear Plant - NRC Fees

NRC Review	1997						1997 Total Mhrs
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr			
	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees
ISI & IST							
Program Review	\$ 1,536.00	12.0	\$ 704.00	5.5	\$ 1,542.00	12.0	\$ 262.00
Contractor Fees	\$ 4,891.00		\$ 3,702.00		\$ 3,960.00		\$ 5,812.00
Subtotal	\$ 6,427.00	12.0	\$ 4,406.00	5.5	\$ 5,502.00	12.0	\$ 6,074.00
RELIEF REQUESTS							
ASME Section XI	\$ 6,144.00	48.0	\$ 7,552.00	59.0	\$ 11,648.00	91.0	\$ 25,344.00
Containment Inspection Schedule			\$ 6,272.00	49.0	\$ 1,542.00	12.0	\$ 7,814.00
Contractor Fees							
Subtotal	\$ 6,144.00	48.0	\$ 13,824.00	108.0	\$ 13,190.00	103.0	\$ 33,158.00
INSPECTIONS							
IR 96-11	Routine Fees	\$ (1,728.00)	-13.5				\$ (1,728.00)
	Non-Routine Fees						
IR 96-12	Routine Fees	\$ 1,152.00	9.0				\$ 1,152.00
	Non-Routine Fees						
IR 96-13	Routine Fees	\$ 47,360.00	370.0				\$ 47,360.00
	Non-Routine Fees	\$ 5,632.00	44.0				\$ 5,632.00
IR 96-14	Routine Fees	\$ 25,472.00	199.0				\$ 25,472.00
	Non-Routine Fees	\$ 6,720.00	52.5				
IR 97-01	Routine Fees	\$ 64,896.00	507.0				\$ 64,896.00
	Non-Routine Fees	\$ 8,256.00	64.5				\$ 8,256.00

IR 97-02	Routine Fees	\$ 35,008.00	273.5			\$ 35,008.00	273.5
	Non-Routine Fees	\$ 8,192.00	64.0			\$ 8,192.00	64.0
IR 97-03	Routine Fees	\$ 10,240.00	80.0			\$10,240.00	80.0
	Non-Routine Fees						
IR 97-04	Routine Fees	\$ 75,328.00	588.5			\$ 75,328.00	588.5
	Non-Routine Fees	\$ 5,056.00	39.5			\$ 5,056.00	39.5
IR 97-5	Routine Fees	\$ 38,485.00	300.5			\$ 38,485.00	300.5
	Non-Routine Fees	\$ 5,635.00	44.0			\$ 5,635.00	44.0
IR 97-6	Routine Fees	\$ 44,346.00	340.5			\$ 44,346.00	340.5
	Non-Routine Fees	\$ 3,141.00	24.0			\$ 3,141.00	24.0
IR 97-7	Routine Fees	\$ 110,695.00	845.0			\$ 110,695.00	845.0
	Non-Routine Fees	\$ 5,502.00	42.0			\$ 5,502.00	42.0
IR 97-8	Routine Fees	\$ 27,379.00	209.0			\$ 27,379.00	209.0
	Non-Routine Fees						
IR 97-9	Routine Fees	\$ 37,531.50	286.5			\$ 37,531.50	286.5
	Non-Routine Fees	\$ 1,572.00	12.0			\$ 1,572.00	12.0
IR 97-11	Routine Fees	\$ 5,764.00	44.0			\$ 5,764.00	44.0
	Non-Routine Fees	\$ 5,109.00	39.0			\$ 5,109.00	39.0
	Contractor Fees						
	Subtotal	\$ 84,608.00	661.0	\$ 126,592.00	989.0	\$ 171,991.00	1,337.0
	OPERATOR LICENSE						
Review		\$ 384.00	3.0			\$ 7,670.20	59.9
	Subtotal	\$ 384.00	3.0			\$ 7,670.20	59.9

Watts Bar Nuclear Plant - NRC Fees

NRC Review	1998			1998 Total		
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Fees	Mhrs
ISI & IST						
Program Review	\$ 1,441.00	\$ 11.0	\$ 3,144.00	\$ 24.0	\$ 620.00	5.0
Contractor Fees	\$ 4,705.00	\$	\$ 487.00			
Subtotal	\$ 6,149.00	\$ 11.0	\$ 3,631.00	\$ 24.0	\$ 620.00	5.0
INSPECTIONS						
IR 97-10	\$ 12,772.50		97.5		\$ 12,772.50	97.5
Routine Fees	\$ 720.50		5.5		\$ 720.50	5.5
Non-Routine Fees						
IR 97-99						
Routine Fees	\$ 15,327.00		117.0		\$ 15,327.00	117.0
Non-Routine Fees						
IR 98-01						
Routine Fees	\$ 40,872.00		312.0		\$ 40,872.00	312.0
Non-Routine Fees	\$ 3,864.50		29.5		\$ 3,864.50	29.5
IR 98-02						
Routine Fees	\$ 40,937.50		312.5		\$ 40,937.50	312.5
Non-Routine Fees	\$ 655.00		5.0		\$ 655.00	5.0
IR 98-03						
Routine Fees	\$ 12,838.00		98.0		\$ 12,838.00	98.0
Non-Routine Fees	\$ 4,061.00		31.0		\$ 4,061.00	31.0
IR 98-04						
Routine Fees	\$ 45,326.00		346.0		\$ 45,326.00	346
Non-Routine Fees	\$ 393.00		3.0		\$ 393.00	3.0
IR 98-05						
Routine Fees	\$ 80,261.00		613.0		\$ 80,261.00	613.0
Non-Routine Fees						
IR 98-06						
Routine Fees						
	\$ 41,199.50		314.5		\$ 41,199.50	314.5

Non-Routine Fees	
IR 98-07	Routine Fees
	\$ 52,317.50
	\$ 248.00
	\$ 2.0
	\$ 248.00
IR 98-08	Non-Routine Fees
	Routine Fees
	\$ 58,494.00
	\$ 496.00
	\$ 4.0
	\$ 58,494.00
	\$ 496.00
	\$ 4.0
IR 98-09	Non-Routine Fees
	Routine Fees
	\$ 21,080.00
	\$ 170.0
	\$ 21,080.00
	\$ 170.0
IR 98-10	Non-Routine Fees
	Routine Fees
	\$ 2,728.00
	\$ 22.0
	\$ 2,728.00
	\$ 22.0
IR 98-11	Non-Routine Fees
	Routine Fees
	\$ 41.0
	\$ 50,220.00
	\$ 405.0
	\$ 55,304.00
	\$ 446.0
IR 98-12	Non-Routine Fees
	Routine Fees
	\$ 5,084.00
	\$ 41.0
	\$ 50,220.00
	\$ 405.0
	\$ 55,304.00
	\$ 446.0
IR 98-13	Non-Routine Fees
	Routine Fees
	\$ 73,556.50
	\$ 561.5
	\$ 104,210.50
	\$ 795.5
	\$ 126,544.50
	\$ 968.5
	\$ 185,583.50
	\$ 1,475.5
	\$ 489,895.00
	\$ 3,801.0
OPERATOR EXAMS	
NRC Personnel	
	\$ 248.00
	\$ 2.0
	\$ 868.00
	\$ 70
	\$ 1,116.00
	\$ 9.0
Subtotal	
	\$ 248.00
	\$ 2.0
	\$ 868.00
	\$ 70
	\$ 1,116.00
	\$ 9.0
OPERATOR LICENSE	
Review	
	\$ 372.00
	30.0
	\$ 4,302.00
	33.0
Subtotal	
	\$ 372.00
	30.0
	\$ 4,302.00
	33.0
MISCELLANEOUS	
Fuel Cask Pit Shield	
	\$ 1,048.00
	\$ 8.0
	\$ 655.00
	\$ 50
	\$ 5,892.00
	\$ 46.5
	\$ 3,844.00
	\$ 31.0
	\$ 11,439.00
	\$ 90.5
Atmos DMP VLVS/Air Supply	
	\$ 393.00
	\$ 3.0
	\$ 1,151.00
	\$ 9.0
	\$ 6,944.00
	\$ 56.0
	\$ 8,488.00
	\$ 68.0
Slave Relay Test Frequency	
	\$ 4,978.00
	\$ 38.0
	\$ 4,323.00
	\$ 33.0
	\$ 15,829.00
	\$ 125.0
	\$ 20,460.00
	\$ 165.0
	\$ 45,590.00
	\$ 361.0
Online Testing of DGs & Battery	
	\$ 262.00
	\$ 2.0
	\$ 12,314.00
	\$ 94.0
	\$ 9,915.00
	\$ 79.0
	\$ 1,488.00
	\$ 12.0
	\$ 23,979.00
	\$ 187.0
Canopy Seal Welds - Alternative	
	\$ 1,074.20
	\$ 8.2
	\$ 1,074.20
	\$ 8.2
Hydrogen Igniters	
	\$ 11,528.00
	\$ 88.0
	\$ 11,528.00
	\$ 88.0

	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Fees	Mhrs	Total 1998
	1st Qtr			2nd Qtr			3rd Qtr			4th Qtr	
New Fuel Enrichment Increase - 5%	\$ 4,454.00	34.0	\$ 3,764.00	29.0	\$ 3,348.00	27.0	\$ 11,566.00	90.0			
F(Q) (Burnup) into COLR	\$ 2,882.70	22.0	\$ 2,489.00	19.0			\$ 5,371.00	41.0			
Flux High Neg Rate Trip Deletion			\$ 2,798.00	22.0	\$ 5,704.00	46.0	\$ 8,502.00	68.0			
TD AFW Surv. @ 1092 psig			\$ 2,170.00	17.5	\$ 1,116.00	9.0	\$ 3,286.00	26.5			
Cold OV-Press Mitigation in Mode 4			\$ 1,550.00	12.5	\$ 4,960.00	40.0	\$ 6,510.00	52.5			
Ice Flow Blockage SR 3.6.11.4					\$ 4,588.00	37.0	\$ 4,588.00	37.0			
Inlet Door Position Monitoring Sym					\$ 2,852.00	23.0	\$ 2,852.00	23.0			
J-R Curve for Forging 05					\$ 806.00	6.5	\$ 806.00	6.5			
Subtotal	\$ 7,755.20	59.2	\$ 36,156.00	276.0	\$ 45,558.00	359.5	\$ 56,110.00	452.5	\$ 145,579.20	1,147.2	*
TOTAL	\$ 91,390.70	661.7	\$ 143,997.50	1,095.5	\$ 173,342.50	1,338.0	\$ 242,561.50	1,935.0	\$ 651,292.20	5,030.2	

TOTALS BY QUARTER

TOTAL					
1997	1st Qtr	Fees	\$ 162,127.00	Mhrs	1,227.0
	2nd Qtr	Fees	\$ 229,430.00	Mhrs	1,763.5
	3rd Qtr	Fees	\$ 361,895.70	Mhrs	2,486.4
	4th Qtr	Fees	\$ 229,105.50	Mhrs	1,702.5
	<i>Subtotal</i>	Fees	\$ 982,558.20	Mhrs	7,179.4
1998	1st Qtr	Fees	\$ 91,390.70	Mhrs	661.7
	2nd Qtr	Fees	\$ 143,997.50	Mhrs	1,095.5
	3rd Qtr	Fees	\$ 173,342.50	Mhrs	1,338.0
	4th Qtr	Fees	\$ 242,561.50	Mhrs	1,935.0
	<i>Subtotal</i>	Fees	\$ 651,292.20	Mhrs	5,030.2
Total		Fees	\$ 1,633,850.40	Mhrs	12,209.6

Tennessee Valley Authority

cc:

Mr. J. A. Scalice
Chief Nuclear Officer and
Executive Vice President
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Senior Vice President
Nuclear Operations
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Jack A. Bailey
Vice President
Engineering & Technical Services
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Masoud Bajestani
Site Vice President
Sequoah Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Soddy Daisy, TN 37379

General Counsel
Tennessee Valley Authority
ET 10H
400 West Summit Hill Drive
Knoxville, TN 37902

Mr. N. C. Kazanas, General Manager
Nuclear Assurance
Tennessee Valley Authority
5M Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

Mr. Mark J. Burzynski, Manager
Nuclear Licensing
Tennessee Valley Authority
4X Blue Ridge
1101 Market Street
Chattanooga, TN 37402-2801

SEQUOYAH NUCLEAR PLANT

Mr. Pedro Salas, Manager
Licensing and Industry Affairs
Sequoah Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Soddy Daisy, TN 37379

Mr. D. L. Koehl, Plant Manager
Sequoah Nuclear Plant
Tennessee Valley Authority
P.O. Box 2000
Soddy Daisy, TN 37379

Mr. Melvin C. Shannon
Senior Resident Inspector
Sequoah Nuclear Plant
U.S. Nuclear Regulatory Commission
2600 Igou Ferry Road
Soddy Daisy, TN 37379

Mr. Michael H. Mobley, Director
TN Dept. of Environment & Conservation
Division of Radiological Health
3rd Floor, L and C Annex
401 Church Street
Nashville, TN 37243-1532

County Executive
Hamilton County Courthouse
Chattanooga, TN 37402-2801

DISTRIBUTION:

HARD COPY (w/Enclosures 1 and 2)

Docket File
PUBLIC
SQN Reading
R. Hernan
OGC
ACRS

cc: Licensee & Service List (w/Enclosures 1 and 2)

E-MAIL (w/Enclosure 1 only)

J. Zwolinski (JAZ)/S. Black (SCB)
H. Berkow (HNB)
S. Peterson (SRP)
B. Clayton (BAC2)
R. Martin
W. Long
R. Hernan
K. O'Donohue - Region II (Vogtle)
W. Reckley
M. Satorious (MAS)
Region II - L. Plisco (LRP)