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FEB 21 1985

MEMORANDUM FOR: Lars T. Solander, Chief  
 Planning and Resource Analysis Branch  
 Planning and Program Analysis Staff, NRR

FROM: William O. Miller, Chief  
 License Fee Management Branch, ADM

SUBJECT: NRR PROFESSIONAL STAFF HOUR AND CONTRACTUAL DATA

Several reactors received their full (100%) power licenses during calendar year 1984. When NRR issues the full power license, LFMB is required to determine the final cost for the operating license (OL) review and bill the licensee, if appropriate, and close the cost record for the case. The final OL cost data for each unit is shown in the annual report to Congress. Please provide this office with the NRR professional regular staff hours and consultant and contractual costs expended for the reactors shown below (we have contractual data for the period 10/1/83 - 5/31/84 for each unit). This would include all OL review time from the date of issuance of the construction permit (CP) to the date of issuance of the 100% operating license. The NRR professional hours should not include time spent for contested hearings or time spent to evaluate any requests relating to CP or OL amendments for which fees were paid, or are to be paid, under the application for license amendment provisions of 10 CFR 170.21 and 170.22 (see attached list of paid for amendments). For those cases where the full power OL was issued after June 23, 1984, the professional staff hours must be shown from CP issue date to June 23, 1984 and from June 24, 1984 through issuance of the full power OL. Different NRR professional hourly rates are applicable for each period of time.

Unit	Construction Permit Issuance Date	100% Power Issuance Date	Previous Requests to NRR for Data
1. WNP-2	3/19/73	4/13/84	5/7/84, 6/27/84, 7/3/84
2. Diablo Canyon 1 <sup>1/</sup>	4/23/68	11/2/84	7/3/84
3. Susquehanna 2	11/2/73	6/27/84	7/3/84
4. Grand Gulf 1	9/4/74	8/31/84	7/3/84
5. Callaway 1	4/16/76	10/18/84	7/3/84

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FEB 21 1985

1/ NRR data was provided on April 13, 1982 (enclosed) for the period ending February 28, 1981. Please update the data through November 2, 1984.

Since Catawba 1 received its 100% OL on 1/17/85, please provide NRR staff hour and contractual data for June 24, 1984 through January 17, 1985. Data is also requested for Byron 1 since they received a 100% OL on 2/14/85.

Thank you for your assistance in this matter.

Original Signed by  
Wm. O. Miller  
William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

Enclosure:  
List of Paid for Appls.  
for Lic. Amendments

DISTRIBUTION:  
Actual Manpower File  
CJHolloway (6 cys)  
RMDiggs  
Dweiss  
WMaher, RM  
SBachrach, RM  
ACabell  
LTremper  
MGarver, NRR  
MKaltman, NRR

OFFICE ▶	LFMB:ADM	LFMB:ADM	LFMB:ADM			
SURNAME ▶	CJHolloway:jp	RMDiggs	WOMiller			
DATE ▶	2/20/85	2/20/85	2/20/85			

WNP-2 100% 4/13/84

<u>Appl</u> <u>Date</u>	<u>Fees</u> <u>Paid</u>	<u>Subject</u>	<u>Approved</u>
9/4/81	\$1,200	Extension of construction completion date	Order 1/27/82
1/20/84	\$8,800	7 changes	Am 2 7/13/84 Am 4 8/14/84
1/20/84	Exempt	Reporting requirements	Am 5 9/21/84
3/1/84	\$1,200	Post accident sampling	Pending
3/9/84	\$1,200	7 administrative changes (Table 3.3.7.9.1, delete channel functional test, initiation and alarm setpoint, change monitoring point, backup fuses, delete valves, organization changes.	Am 6 10/12/84 (partial)
3/13/84	\$1,200	Operability of 24, 125 and 250 volt batteries Correct time during which battery is capable of supplying and maintaining actual emergency loads	Am 6 10/12/84

Diablo Canyon 1 100% 11/2/84

<u>APPL DATE</u>	<u>FEES PAID</u>	<u>SUBJECT</u>	<u>APPROVED</u>
8/11/78	\$1,200	Extension of construction completion date	Order 10/13/78
3/21/79	\$1,200	Extension of construction completion date	Order 4/13/79
5/14/79	\$1,200	Extension of construction completion date	Order 7/11/79
11/26/79	\$1,200	Extension of construction completion date	Order 2/2/80
8/21/80	\$1,200 Refunded	Extension of construction completion date	No review done
10/28/81	Exempt	Exemption from 20.501 calendar quarter	Letter 12/31/81
12/29/81	\$1,200	Post accident sampling, accident monitoring instrumentation, instruments for inadequate core cooling, calculations for small break LOCA, physical security issues	Am 1 2/5/82 and Letter 12/31/81
6/23/82	\$1,200	Valves, EQ dates	?
7/19/82	\$4,000	Security Plan	Am 6 10/11/83
8/3/82	\$1,200	Extend expiration date of license	Am 9 4/18/84
9/17/82	\$1,200	Security Plan	Am 2 10/26/82
9/20/82	\$1,200	Change in emergency support facilities implementation date	
12/17/82	Exempt	Modify audit frequency for emergency and security plans	
12/21/82	\$4,000	Relief from 3/4.9.7 to make mods to fuel handling building	Am 3 1/6/83
12/29/82	\$4,000	LCO for vital AC busses and inverters	Am 7 11/10/83
2/25/83	\$4,000	Exemption from 10 CFR 73	Am 4 and exempti 3/11/83
4/29/83	\$1,200	Relief extension from 3/4.9.7 of TS	Am 5 5/5/83
5/2/83	\$5,200	Containment isolation valves, organization and fire protection instruments	Am 7 11/10/83
5/23/83	\$4,000	Modified requirements for fire water supply and halon initiator replacement	Am 7 11/10/83
6/23/83	\$4,000	containment spray timing	Am 7 11/10/83
7/1/83	\$4,000	Ultimate heat sink	Am 8 4/13/84
8/8/83	\$4,000	FSAR Chapter 17 changes	

Diablo Canyon 1 - continued

<u>APPL DATE</u>	<u>FEES PAID</u>	<u>SUBJECT</u>	<u>APPROVED</u>
8/16/83	\$4,000	Temporary relief from TS 3.4.13b and 3.7.1.3 to perform boron mixing and cooldown test	
8/18/83	\$4,000	Flood protection - breakwaters	
11/4/83	\$4,000	Snubber changes	
2/29/84	\$4,000	Auxiliary feedwater pump surveillance	
2/29/84	\$1,200	Exempts the pressurizer safety valves from an LCO that would prevent required surveillance testing	
3/30/84	\$4,000	Snubbers	
3/30/84	Exempt	Surveillance requirements for plant response to loss of diesel generators	
3/30/84	\$4,000	Allows 200 hr/year containment purge limitation	
8/20/84	\$150	Extension of license	
9/21/84	\$150	Engineered Safety Features Response times	

SUSQUEHANNA 2  
DOCKET NO. 50-388  
100% OL on 6/27/84

<u>Appl Date</u>	<u>Subject</u>	<u>Approval</u>
1/23/81	Extension of construction completion date	Order 2/28/81
3/ 1/84	Physical Security Plan changes	pending
4/10/84	Operating temperature limits on spray pond	pending
4/10/84	Modifications to nitrogen makeup system	pending
5/4/84	Revise leakage limits and testing	pending
5/15/84	Monitoring of APRM and LPRM noise levels	pending

Grand Gulf 1 100% 8/31/84

<u>Appl</u> <u>Date</u>	<u>Fees</u> <u>Paid</u>	<u>Subject</u>	<u>Approved</u>
8/31/79	\$1,200	Extension of Construction completion date	Order 10/30/79
7/10/79	1,200	Approval of deletion of stage monitoring	Am 5 to CP 4/25/81
4/3/80	4,000	Include South Mississippi Electric Power Association as coowner	Am 6 to CP 10/29/80
9/26/80	Exempt	Removal of License Condition re Sediment	Am 7 to CP 12/23/80
1/8/82	1,200	Extension of construction completion date	Order 5/3/82
6/23/82	1,200	Secondary containment ventilation system automatic isolation dampers/valves	Am 1 6/30/82
7/2/82	5,200	One time exception and drywell post LOCA vacuum breakers	Am 2 8/17/82 and Am 4 10/14/82
8/5/82	1,200	Leak testing of control room envelope	Am 2 8/17/82
8/10/82	4,000	Delay of control room envelope leak tightness test	Am 2 8/17/82
9/13/82	1,200	Non-nuclear heat up and delete License Condition 2.C(12)(c) and add new condition	Am 3 9/20/82 Am 5 12/20/82
9/13/82	5,200	Valve stroke time, keep filled pressure alarm; containment spray initiation time; molded case circuit breaker response time, and RHR operability requirements	Am 3 9/20/82 Am 4 10/14/82 Am 5 12/20/82
10/21/82	1,200	ADS logic modification schedule	Am 6 2/7/83
12/22/82	4,000	License condition 2.C(42),h re protective sleeving and L.C. 2.C(42)i reduce turbulence during startup source replacement	Am 6 2/7/83
3/24/83	1,200	Surveillance procedure review (32 changes) Miscellaneous TS changes (8)	Am 7 7/1/83 Am 8 8/8/83
4/7/83	1,200	Surveillance procedure review and response for auditing of station	Am 7 7/1/83 Am 8 8/8/83
4/25/83	5,200	Miscellaneous TS changes	Am 7 7/1/83 Am 8 8/8/83 Am 12 2/21/84
5/31/83	1,200	License Condition 2.C(10) dynamic testing License Condition 2.C(18) ISI Program License Condition 2.C(30) remote shutdown panel License Condition 2C(32) interplant common sys	Am 13 8/31/84

Grand Gulf 1 - continued

6/9/83	\$5,200	Miscellaneous TS changes	Am 8 8/8/83 Am 9 9/15/83
6/14/83	1,200	Miscellaneous TS changes	Am 8 8/8/83 Am 9 9/15/83 Am 10 9/23/83
6/16/83	4,000	Control room leak tightness test	Am 11 9/23/83
6/23/83	13,200*	Miscellaneous TS changes	Am 8 8/8/83 Am 9 9/15/83 Am 10 9/23/83 Am 12 2/21/84
6/29/83	1,200	Miscellaneous TS changes	Am 8 8/8/83 Am 9 9/15/83
7/11/83	5,200*	Relief valves and Miscellaneous changes	Am 12 2/21/84
7/19/83	1,200	Administrative TS changes	Am 9 9/15/83
8/1/83	1,200	Miscellaneous changes	Am 9 9/15/83 Am 10 9/23/83
8/9/83	1,200	Miscellaneous TS changes	Am 9 9/15/83
8/25/83	4,000*	Inspection relief	Pending
8/26/83	4,000*	Inspection relief	Pending
8/29/83	1,200	Miscellaneous TS changes	Am 9 9/15/83
9/9/83	1,200	Miscellaneous TS changes	Am 13 8/31/84
9/12/83	4,000	Lower maximum allowable SRM count rate	Am 12 2/21/84
10/7/83	Exempt	Mechanical Snubbers	Order 4/18/84
10/11/83	Exempt	RCIC changes in minimum operable channel per trip system	Order 4/18/84
12/14/83	Exempt	TS 4.3.2.1-1 Isolation Actuation instrument surveillance requirements	Order 4/18/84
12/28/83	4,000*	License condition re remote shutdown panel	Pending
1/23/84	4,000*	Control room leakage rate	Am 13 8/31/84
3/20/84	Exempt	Automatic depressurization system valve operability requirements	Order 4/18/84
3/29/84	Exempt	Mechanical snubbers	Order 4/18/84
4/7/84	Exempt	Channel calibration frequency	Order 4/18/84
4/10/84	Exempt	Isolation actuation instrument trip setpoint	Order 4/18/84



Grand Gulf 1 - continued

4/11/84	Exempt	ECCS surveillance requirements	Order 4/18/84
5/11/84	4,000*	Relief from ASME Code for Preservice Inspection of Class 1 components	Pending
6/29/84	\$150*	Relief from 11 ISI items	Pending
7/25/84	\$150*	10-year ISI Plan	Pending

\*Fee requested but not yet paid.

Callaway 1 1001 10/18/84

<u>Appl Date</u>	<u>Fee Paid</u>	<u>Subject</u>	<u>Approved</u>
7/22/81	\$1,200	Extension of construction completion date	Order 12/21/81
10/28/83	\$1,200	Extension of construction completion date	Order 10/28/83
7/6/84	\$150	Change in reporting for QA training supervisor <u>TAC 55389</u>	Letter 10/18/84
7/17/84	\$150	Containment leakage surveillance requirements Containment leakage rate tests Overpressure protection system <u>TAC 55434</u>	Pending Pending Letter 10/18/84 (pa tial approval)
7/31/84	\$150	Exemption from Appendix J <u>TAC 55453</u>	Letter and Exemptio 10/9/84
8/1/84	\$150	Table 3.3-1 source range neutron monitors <u>TAC 55454</u>	1 11/29/84
10/3/84	\$150	Add two additional batch waste release tanks <u>TAC 56071</u>	2 2/4/85
10/8/84	\$150	Add Assistant Manager to on site review committee and two positions in Figure 6.2-2 <u>TAC 56060</u>	Pending

Catawba 1100 1/17/85

<u>Appl</u> <u>Date</u>	<u>Fees</u> <u>Paid</u>	<u>Subject</u>	<u>Approved</u>
7/1/80	\$4,000	Add two companies for ownership interest	Am 1 to CP 12/23/
4/30/81	\$1,200	Extension of construction completion date	Order 6/4/81
1/23/84	\$1,200 refunded	Extension of construction completion date	review done
11/6/84	\$150	Revs 2 and 3 to pump and valve program <u>TAC 56487</u>	Pending
11/21/84	\$150	Internal corrosion protection for fuel oil storage tanks <u>TAC 56486</u>	Pending
12/17/84	\$150	Post fuel loading initial test report Chanter 14 changes <u>TACS 56510 and 56552</u>	Pending

Byron 1 100: 2/14/85

<u>Appl Date</u>	<u>Fees Paid</u>	<u>Subject</u>	<u>Approved</u>
8/13/84	\$150	Extension of construction completion date	
1/18/85	\$150	Add footnote to Table 3.6-1 containment isolation valves	1 1/28/85



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

April 13, 1982

*Provided in response  
to request to provide  
info for Chairman to  
respond to Congressional  
question*

MEMORANDUM FOR: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

FROM: Herbert N. Berkow, Chief  
Management Analysis Branch  
Planning and Program Analysis Staff, NRR

SUBJECT: PROFESSIONAL MANPOWER EXPENDED AND ASSOCIATED COSTS  
FOR DIABLO CANYON 1 & 2

In response to your March 26, 1982 memorandum, we are providing the professional staff hours and associated costs for Diablo Canyon 1 & 2. Subsequent to your memorandum we were informed that it would be sufficient to just provide data for the period 4/23/81 to 2/28/82.

The consultant contractual cost for the above period was \$728,899 for Units 1 and 2. We were unable to separate the contractual cost by Units. The total professional staff hours amounted to 75,465, broken out as follows:

Diablo Canyon 1	60,969	(54,409 regular and 6,560 non-regular)
Diablo Canyon 2	14,496	(12,840 regular and 1,656 non-regular)

Of the total hours, 8,449 were charged to the Diablo 1 hearing and 3,352 to Diablo 2.

The manpower data is preliminary. MPA has informed us of some discrepancies. The data will be refined by the time we provide final figures for billing the licensee.

Herbert N. Berkow, Chief  
Management Analysis Branch  
Planning and Program Analysis Staff, NRR

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RECEIVED BY UNIT
Date: <i>4-14-82</i>
By: <i>A.M.</i>
By: <i>B.G.S.</i>