SONGS UNIT 2 SINGLE-SIDED
Operating License & Technical Specification/Licensee Controlled Specification

AMD 211/203, B05-010, & B06-002

Revise Unit 2 Operating License by removing pages and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and/or dates and contain marginal/lines indicating the areas of change. **Please direct any questions regarding filing of information to: (949) 368-6557 or email CDM Controlled Manuals Desk.**

REMOVE:			INSERT:		
VOLUME 1			**VOLUME 1**		
BEHIND: List of Effective Pages – "Blue Tab"			**BEHIND**: List of Effective Pages – "Blue Tab"		
List of Effective Pages – Pages 1-12	3/07/07		List of Effective Pages – Pages 1-12	4/8/07	
BEHIND: Facility Operating License "Blue Tab"			**BEHIND:** Facility Operating License "Blue Tab"		
Facility Operating License Page 2	AMD 209		Facility Operating License Page 2	AMD 211	
Page 3	AMD 209		Page 3	AMD 211	
BEHIND: Electrical Power Systems "Blue Tab"			**BEHIND:** Electrical Power Systems "Blue Tab"		
Page 3.8-6	AMD 179		Page 3.8-6	AMD 211	
Page 3.8-20	AMD 183		Page 3.8-20	AMD 211	
Page 3.8-21	AMD 183		Page 3.8-21	AMD 211	
VOLUME 3			**VOLUME 3**		
BEHIND: B 3.7 "Blue Tab"			**BEHIND:** B 3.7 "Blue Tab"		
Page B 3.7-51	AMD 127	4/12/01	Page B 3.7-51	AMD 127	4/08/07
BEHIND: B 3.8 - "Blue Tab"			**BEHIND:** B 3.8 - "Blue Tab"		
Page B 3.8-18	AMD 127	6/18/01	Page B 3.8-18	AMD 211	4/05/07
Page B 3.8-36	AMD 127	No Date Listed	Page B 3.8-36	AMD 211	4/05/07
Page B 3.8-38	AMD 127	3/25/02	Page B 3.8-38	AMD 211	4/05/07
Page B 3.8-39	AMD 127	3/25/02	Page B 3.8-39	AMD 211	4/05/07
Page B 3.8-41	AMD 127	3/25/02	Page B 3.8-41	AMD 211	4/05/07

Filing Instructions Reviewed & Approved:

MMMcFann 4/17/07
Signature/NRA Date

LaDonna Miller 4/17/07
Signature/CDM Processor Date

A001

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date
LOEP-1	1	211	04/08/07	2.0-1	1	207
LOEP-2	1	208	01/25/07	2.0-2	1	207
LOEP-3	1	211	04/04/07	3.0-1	1	127
LOEP-4	1	211	04/04/07	3.0-2	1	127
LOEP-4a	1	168		3.0-3	1	127
LOEP-5	1	207	12/21/06	3.0-4	1	186
LOEP-6	1	200	11/18/05	3.0-5	1	127
LOEP-7	1	197	07/19/05	3.1-1	1	200
LOEP-8	1	208	12/05/06	3.1-2	1	200
LOEP-9	1	204	09/19/06	3.1-3	1	200
LOEP-10	1	197	04/08/07	3.1-4	1	127
LOEP-11	1	211	04/05/07	3.1-5	1	127
LOEP-12	1	193	03/07/07	3.1-6	1	127
ii	1	127		3.1-7	1	200
iii	1	208		3.1-8	1	200
iv	1	208		3.1-9	1	127
v	1	197		3.1-10	1	127
vi	1	127		3.1-11	1	127
vii	1	208		3.1-12	1	200
viii	1	208		3.1-13	1	127
1.1-1	1	127		3.1-14	1	200
1.1-2	1	127		3.1-15	1	200
1.1-3	1	188		3.1-16	1	200
1.1-4	1	204		3.1-17	1	127
1.1-5	1	203		3.1-18	1	127
1.1-6	1	200		3.1-19	1	127
1.1-7	1	127		3.1-20	1	127
1.2-1	1	127		3.1-21	1	163
1.2-2	1	127		3.1-22	1	175
1.2-3	1	127		3.1-23	1	127
1.3-1	1	127		3.1-24	1	127
1.3-2	1	127		3.1-25	1	127
1.3-3	1	127		3.1-26	1	127
1.3-4	1	127		3.1-27	1	127
1.3-5	1	127		3.1-28	1	127
1.3-6	1	127		3.1-29	1	127
1.3-7	1	127		3.2-1	1	127
1.3-8	1	127		3.2-2	1	127
1.3-9	1	127		3.2-3	1	127
1.3-10	1	127		3.2-4	1	127
1.3-11	1	127		3.2-5	1	127
1.3-12	1	127		3.2-6	1	127
1.3-13	1	127		3.2-7	1	127
1.4-1	1	127		3.2-8	1	127
1.4-2	1	127		3.2-9	1	200
1.4-3	1	127		3.2-10	1	127
1.4-4	1	127		3.2-11	1	127
				3.2-12	1	127

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date
3.3-1	1	127		3.3-50	1	127
3.3-2	1	127		3.3-51	1	175
3.3-3	1	127		3.3-52	1	127
3.3-4	1	127		3.4-1	1	149
3.3-5	1	127		3.4-2	1	149
3.3-6	1	147		3.4-3	1	149
3.3-7	1	133		3.4-4	1	127
3.3-8	1	150		3.4-5	1	203
3.3-9	1	150		3.4-6	1	203
3.3-10	1	127		3.4-7	1	203
3.3-11	1	127		3.4-8	1	203
3.3-12	1	133		3.4-9	1	203
3.3-13	1	147		3.4-10	1	203
3.3-14	1	127		3.4-11	1	203
3.3-15	1	127		3.4-12	1	203
3.3-16	1	133		3.4-13	1	127
3.3-17	1	127		3.4-14	1	197
3.3-18	1	127		3.4-15	1	127
3.3-19	1	127		3.4-16	1	175
3.3-20	1	133		3.4-17	1	175
3.3-21	1	127		3.4-18	1	203
3.3-22	1	157		3.4-19	1	175
3.3-23	1	157		3.4-20	1	127
3.3-24	1	157		3.4-21	1	175
3.3-25	1	157		3.4-22	1	203
3.3-26	1	127		3.4-23	1	175
3.3-27	1	127		3.4-24	1	175
3.3-28	1	127		3.4-25	1	175
3.3-29	1	133		3.4-26	1	161
3.3-30	1	127		3.4-27	1	155
3.3-31	1	127		3.4-28	1	156
3.3-32	1	127		3.4-29	1	156
3.3-33	1	127		3.4-30	1	203
3.3-34	1	196		3.4-31	1	203
3.3-35	1	132		3.4-32	1	127
3.3-36	1	132		3.4-33	1	203
3.3-37	1	132		3.4-34	1	143
3.3-38	1	132		3.4-35	1	203
3.3-39	1	132		3.4-36	1	127
3.3-40	1	175		3.4-37	1	204
3.3-41	1	160		3.4-38	1	204
3.3-42	1	208	01/25/07	3.4-39	1	127
3.3-43	1	208	01/25/07	3.4-40	1	127
3.3-44	1	127		3.4-41	1	127
3.3-45	1	194		3.4-42	1	127
3.3-46	1	194		3.4-43	1	127
3.3-47	1	194		3.4-44	1	127
3.3-48	1	127		3.4-45	1	127
3.3-49	1	127				

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date	Page No.	Volume	Amendment/Date
3.4-46	1	127	3.7-6	1	127
3.4-47	1	127	3.7-7	1	127
3.4-48	1	127	3.7-8	1	127
3.4-49	1	127	3.7-9	1	127
3.4-50	1	127	3.7-10	1	127
3.4-51	1	204	3.7-11	1	164
3.4-52	1	204	3.7-12	1	127
3.5-1	1	139	3.7-13	1	127
3.5-2	1	135	3.7-14	1	191
3.5-3	1	127	3.7-15	1	147
3.5-4	1	139	3.7-16	1	162
3.5-5	1	127	3.7-17	1	127
3.5-6	1	190	3.7-18	1	127
3.5-7	1	127	3.7-19	1	127
3.5-8	1	127	3.7-19a	1	129
3.5-9	1	127	3.7-19b	1	129
3.5-10	1	127	3.7-19c	1	129
3.5-11	1	127	3.7-20	1	127
3.6-1	1	127	3.7-21	1	127
3.6-2	1	144	3.7-22	1	181
3.6-3	1	127	3.7-23	1	127
3.6-4	1	127	3.7-24	1	181
3.6-5	1	127	3.7-25	1	177
3.6-6	1	144	3.7-26	1	177
3.6-7	1	127	3.7-27	1	208 01/25/07
3.6-8	1	127	3.7-28	1	208 01/25/07
3.6-9	1	127	3.7-29	1	127
3.6-10	1	127	3.7-30	1	127
3.6-11	1	127	3.7-31	1	127
3.6-12	1	165	3.7-32	1	131
3.6-13	1	201	3.7-33	1	131
3.6-14	1	201	3.7-34	1	131
3.6-15	1	127	3.7-35	1	127
3.6-16	1	127	3.8-1	1	141
3.6-17	1	127	3.8-2	1	141
3.6-18	1	171	3.8-3	1	127
3.6-19	1	127	3.8-4	1	127
3.6-20	1	127	3.8-5	1	179
3.6-21	1	127	3.8-6	1	211
3.6-22	1	127	3.8-7	1	158
3.6-23	1	159	3.8-8	1	179
3.6-24	1	159	3.8-9	1	158
3.6-25	1	127	3.8-10	1	158
3.6-26	1	127	3.8-11	1	158
3.7-1	1	127	3.8-12	1	158
3.7-2	1	127	3.8-13	1	169
3.7-3	1	127	3.8-14	1	179
3.7-4	1	163	3.8-15	1	158
3.7-5	1	127	3.8-16	1	127

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date	Page No.	Volume	Amendment/Date
3.8-17	1	127	5.0-8	1	207
3.8-18	1	175	5.0-9	1	178
3.8-19	1	127	5.0-10	1	127
3.8-20	1	211	5.0-11	1	170
3.8-21	1	211	5.0-12	1	178
3.8-22	1	127	5.0-13	1	204
3.8-23	1	127	5.0-14	1	204
3.8-24	1	127	5.0-15	1	206
3.8-25	1	127	5.0-15a	1	206
3.8-26	1	127	5.0-16	1	204
3.8-27	1	175	5.0-17	1	208
3.8-28	1	127	5.0-18	1	204
3.8-29	1	127	5.0-19	1	204
3.8-30	1	127	5.0-20	1	204
3.8-31	1	127	5.0-20a	1	198
3.8-32	1	127	5.0-20b	1	144
3.8-33	1	127	5.0-21	1	127
3.8-34	1	127	5.0-22	1	127
3.8-35	1	127	5.0-23	1	195
3.8-36	1	175	5.0-24	1	127
3.8-37	1	127	5.0-25	1	127
3.8-38	1	127	5.0-26	1	200
3.8-39	1	127	5.0-27	1	203
3.8-40	1	175	5.0-27a	1	203
3.8-41	1	127	5.0-28	1	204
3.9-1	1	127	5.0-29	1	204
3.9-2	1	175	5.0-30	1	197
3.9-3	1	127	5.0-31	1	207
3.9-4	1	193			
3.9-5	1	127			
3.9-6	1	175			
3.9-6a	1	175			
3.9-7	1	153			
3.9-8	1	153			
3.9-9	1	175			
3.9-9a	1	153			
3.9-10	1	134			
4.0-1	1	199			
4.0-2	1	127			
4.0-3	1	127			
4.0-4	1	131			
4.0-5	1	131			
5.0-1	1	207			
5.0-2	1	207			
5.0-3	1	207			
5.0-4	1	207			
5.0-5	1	207			
5.0-6	1	184			
5.0-7	1	127			

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date
Bibliographic Data Sheet	1	dated February 17, 1982
Appendix B	1	dated February 17, 1982
Unit 2 Environmental Protection Plan	1	dated February 17, 1982
1-1	1	dated February 17, 1982
2-1	1	dated February 17, 1982
2-2	1	dated February 17, 1982
3-1	1	dated February 17, 1982
3-2	1	168
4-1	1	168
4-2	1	dated February 17, 1982
Appendix C Anti Trust Conditions	1	
Appendix C	1	dated February 17, 1982
2	1	dated February 17, 1982
3	1	dated February 17, 1982

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 2.0-1	2	192	07/19/04	B 3.1-27	2	127	
B 2.0-2	2	127		B 3.1-28	2	200	11/18/05
B 2.0-3	2	207	12/21/06	B 3.1-29	2	200	11/18/05
B 2.0-3a	2	192	07/19/04	B 3.1-30	2	200	11/18/05
B 2.0-4	2	207	12/21/06	B 3.1-31	2	127	
B 2.0-5	2	207	12/21/06	B 3.1-32	2	127	05/02/97
B 2.0-6	2	127		B 3.1-33	2	127	
B 2.0-7	2	127		B 3.1-34	2	127	05/02/97
B 2.0-8	2	207	12/21/06	B 3.1-35	2	127	
B 2.0-9	2	207	12/21/06	B 3.1-36	2	127	
B 3.0-1	2	127		B 3.1-37	2	200	11/18/05
B 3.0-2	2	127		B 3.1-38	2	200	11/18/05
B 3.0-3	2	127		B 3.1-39	2	127	
B 3.0-4	2	207	12/21/06	B 3.1-40	2	127	
B 3.0-5	2	127		B 3.1-41	2	127	
B 3.0-6	2	127		B 3.1-42	2	127	
B 3.0-7	2	127		B 3.1-43	2	200	11/18/05
B 3.0-8	2	127		B 3.1-43a	2	200	11/18/05
B 3.0-9	2	127		B 3.1-44	2	200	11/18/05
B 3.0-10	2	127		B 3.1-45	2	127	
B 3.0-11	2	127		B 3.1-46	2	200	11/18/05
B 3.0-12	2	127	12/01/98	B 3.1-47	2	127	
B 3.0-13	2	186	10/25/02	B 3.1-48	2	127	
B 3.0-14	2	186	05/08/02	B 3.1-49	2	127	
B 3.0-15	2	186	05/08/02	B 3.1-50	2	127	
B 3.1-1	2	200	11/18/05	B 3.1-51	2	127	
B 3.1-2	2	200	11/18/05	B 3.1-52	2	127	
B 3.1-3	2	200	11/18/05	B 3.1-53	2	127	
B 3.1-4	2	200	11/18/05	B 3.1-54	2	127	08/03/01
B 3.1-5	2	Deleted		B 3.1-55	2	127	08/03/01
B 3.1-6	2	Deleted		B 3.1-56	2	127	08/03/01
B 3.1-7	2	200	11/18/05	B 3.1-57	2	127	08/03/01
B 3.1-8	2	200	11/18/05	B 3.1-58	2	127	08/03/01
B 3.1-9	2	200	11/18/05	B 3.1-58a	2	127	08/03/01
B 3.1-10	2	200	11/18/05	B 3.1-58b	2	127	08/03/01
B 3.1-11	2	Deleted		B 3.1-59	2	200	11/18/05
B 3.1-12	2	Deleted		B 3.1-60	2	127	11/05/96
B 3.1-13	2	127		B 3.1-61	2	127	05/03/00
B 3.1-14	2	127		B 3.1-62	2	175	12/20/00
B 3.1-15	2	200	11/18/05	B 3.1-63	2	175	05/21/02
B 3.1-16	2	127		B 3.1-63a	2	175	12/20/00
B 3.1-17	2	200	11/18/05	B 3.1-64	2	127	
B 3.1-18	2	127		B 3.1-65	2	127	
B 3.1-19	2	127	01/03/02	B 3.1-66	2	127	
B 3.1-20	2	127		B 3.1-67	2	127	
B 3.1-21	2	127	01/03/02	B 3.1-68	2	127	
B 3.1-22	2	127	05/30/97	B 3.1-69	2	127	
B 3.1-23	2	127		B 3.1-70	2	127	
B 3.1-24	2	127		B 3.1-71	2	127	
B 3.1-25	2	127	05/02/97	B 3.1-72	2	127	
B 3.1-26	2	127	07/29/99				

APPENDIX A TO LICENSE NO. NPF-10

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.1-73	2	127		B 3.3-2	2	127	07/17/97
B 3.1-74	2	127		B 3.3-3	2	127	
B 3.1-75	2	127		B 3.3-4	2	127	
B 3.1-76	2	127		B 3.3-5	2	127	
B 3.1-77	2	127	05/29/97	B 3.3-6	2	127	
B 3.1-78	2	127	05/29/97	B 3.3-7	2	127	
B 3.1-79	2	127		B 3.3-8	2	127	
B 3.1-80	2	127		B 3.3-9	2	127	
B 3.2-1	2	127		B 3.3-10	2	127	
B 3.2-2	2	127		B 3.3-11	2	127	
B 3.2-3	2	127		B 3.3-12	2	127	03/12/99
B 3.2-4	2	192	07/19/04	B 3.3-13	2	127	
B 3.2-5	2	127		B 3.3-14	2	127	
B 3.2-6	2	127		B 3.3-15	2	127	
B 3.2-7	2	127		B 3.3-16	2	127	07/17/97
B 3.2-8	2	127		B 3.3-17	2	127	09/16/03
B 3.2-9	2	127		B 3.3-18	2	127	03/12/99
B 3.2-10	2	127		B 3.3-19	2	127	
B 3.2-11	2	127		B 3.3-20	2	127	
B 3.2-12	2	192	07/19/04	B 3.3-21	2	127	03/12/99
B 3.2-13	2	127		B 3.3-22	2	127	03/12/99
B 3.2-14	2	127		B 3.3-23	2	127	03/12/99
B 3.2-15	2	127		B 3.3-24	2	127	
B 3.2-16	2	127		B 3.3-25	2	127	12/30/96
B 3.2-17	2	127		B 3.3-26	2	127	12/30/96
B 3.2-18	2	127		B 3.3-26a	2	127	12/30/96
B 3.2-19	2	192	07/19/04	B 3.3-27	2	127	
B 3.2-20	2	127		B 3.3-28	2	127	
B 3.2-21	2	127		B 3.3-29	2	127	
B 3.2-22	2	127		B 3.3-30	2	127	05/29/97
B 3.2-23	2	127		B 3.3-31	2	127	05/02/97
B 3.2-24	2	127		B 3.3-32	2	127	03/12/99
B 3.2-25	2	127		B 3.3-33	2	127	03/12/99
B 3.2-26	2	127		B 3.3-34	2	127	03/12/99
B 3.2-27	2	127		B 3.3-35	2	127	03/12/99
B 3.2-28	2	127		B 3.3-36	2	127	03/12/99
B 3.2-29	2	192	07/19/04	B 3.3-37	2	188	
B 3.2-30	2	200	11/18/05	B 3.3-37a	2	188	09/16/03
B 3.2-31	2	127		B 3.3-38	2	127	
B 3.2-32	2	127		B 3.3-39	2	127	07/17/97
B 3.2-33	2	127		B 3.3-40	2	127	09/25/98
B 3.2-34	2	127		B 3.3-41	2	127	09/25/98
B 3.2-35	2	127		B 3.3-42	2	127	
B 3.2-36	2	127		B 3.3-43	2	127	
B 3.2-37	2	127		B 3.3-44	2	127	12/30/96
B 3.2-38	2	192	07/19/04	B 3.3-45	2	127	12/30/96
B 3.2-39	2	127		B 3.3-46	2	127	12/30/96
B 3.2-40	2	127		B 3.3-47	2	127	12/30/96
B 3.2-41	2	127		B 3.3-48	2	127	09/18/98
B 3.3-1	2	127		B 3.3-49	2	127	09/18/98

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.3-50	2	127	09/18/98	B 3.3-100	2	197	07/19/05
B 3.3-51	2	127	02/11/02	B 3.3-101	2	127	10/06/99
B 3.3-52	2	127		B 3.3-102	2	127	10/06/99
B 3.3-53	2	127	07/17/97	B 3.3-103	2	127	10/06/99
B 3.3-54	2	127		B 3.3-103a	2	188	
B 3.3-55	2	127		B 3.3-103b	2	157	09/16/03
B 3.3-56	2	127		B 3.3-103c	2	188	
B 3.3-57	2	127		B 3.3-104	2	127	
B 3.3-58	2	127		B 3.3-105	2	127	
B 3.3-59	2	127		B 3.3-106	2	127	
B 3.3-60	2	127	09/18/98	B 3.3-107	2	127	
B 3.3-61	2	127	09/18/98	B 3.3-108	2	127	
B 3.3-62	2	127	09/18/98	B 3.3-109	2	127	
B 3.3-63	2	127		B 3.3-110	2	127	
B 3.3-64	2	127	07/17/97	B 3.3-111	2	127	
B 3.3-65	2	127		B 3.3-112	2	127	
B 3.3-66	2	127		B 3.3-113	2	127	
B 3.3-67	2	127		B 3.3-114	2	127	
B 3.3-68	2	127		B 3.3-115	2	127	
B 3.3-69	2	127		B 3.3-116	2	127	
B 3.3-70	2	127		B 3.3-117	2	127	
B 3.3-71	2	127		B 3.3-118	2	127	
B 3.3-72	2	127	12/30/96	B 3.3-119	2	127	12/30/96
B 3.3-73	2	127	12/30/96	B 3.3-120	2	127	12/30/96
B 3.3-74	2	127	12/30/96	B 3.3-121	2	127	12/30/96
B 3.3-75	2	127	05/28/97	B 3.3-122	2	127	12/30/96
B 3.3-76	2	127	12/30/96	B 3.3-123	2	127	05/28/97
B 3.3-77	2	127	07/17/97	B 3.3-124	2	127	05/28/97
B 3.3-78	2	127		B 3.3-125	2	127	05/28/97
B 3.3-79	2	127		B 3.3-126	2	127	
B 3.3-80	2	127		B 3.3-127	2	127	
B 3.3-81	2	127		B 3.3-128	2	127	
B 3.3-82	2	127		B 3.3-129	2	127	09/06/00
B 3.3-83	2	127		B 3.3-130	2	127	
B 3.3-84	2	127		B 3.3-131	2	127	09/06/00
B 3.3-85	2	127		B 3.3-132	2	127	05/29/97
B 3.3-86	2	127		B 3.3-133	2	127	07/13/99
B 3.3-87	2	127	02/24/99	B 3.3-134	2	174	12/14/00
B 3.3-88	2	127	07/17/97	B 3.3-135	2	127	05/28/97
B 3.3-89	2	127		B 3.3-136	2	127	06/09/00
B 3.3-90	2	127		B 3.3-137	2	127	05/28/97
B 3.3-91	2	127		B 3.3-138	2	127	05/28/97
B 3.3-92	2	127		B 3.3-139	2	127	05/28/97
B 3.3-93	2	127		B 3.3-140	2	127	05/28/97
B 3.3-94	2	127		B 3.3-141	2	127	05/28/97
B 3.3-95	2	127	10/06/99	B 3.3-142	2	127	05/28/97
B 3.3-96	2	127	10/06/99	B 3.3-143	2	127	05/28/97
B 3.3-97	2	127	10/06/99	B 3.3-144	2	127	05/28/97
B 3.3-98	2	127	07/18/01	B 3.3-145	2	127	06/27/97
B 3.3-99	2	127	10/06/99	B 3.3-146	2	127	03/19/98

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.3-147	2	127	06/27/97	B 3.4-12	3	127	
B 3.3-148	2	175	12/20/00	B 3.4-13	3	127	
B 3.3-149	2	175	12/20/00	B 3.4-14	3	127	
B 3.3-150	2	127	08/20/01	B 3.4-15	3	203	
B 3.3-151	2	127	06/27/97	B 3.4-16	3	203	
B 3.3-152	2	208	12/05/06	B 3.4-17	3	197	07/19/05
B 3.3-153	2	208	12/05/06	B 3.4-18	3	197	07/19/05
B 3.3-154	2	208	12/05/06	B 3.4-19	3	127	
B 3.3-155	2	208	12/05/06	B 3.4-20	3	197	07/19/05
B 3.3-156	2	208	12/05/06	B 3.4-21	3	197	07/19/05
B 3.3-157	2	208	12/05/06	B 3.4-22	3	127	
B 3.3-158	2	127	12/17/98	B 3.4-23	3	127	
B 3.3-159	2	127	06/08/00	B 3.4-24	3	204	
B 3.3-160	2	127	06/23/99	B 3.4-25	3	127	
B 3.3-161	2	127	05/30/97	B 3.4-26	3	127	
B 3.3-162	2	127	05/30/97	B 3.4-27	3	127	
B 3.3-163	2	130	05/30/97	B 3.4-28	3	204	
B 3.3-164	2	127	05/30/97	B 3.4-29	3	175	12/20/00
B 3.3-165	2	127	05/30/97	B 3.4-30	3	175	12/20/00
B 3.3-166	2	194	04/25/05	B 3.4-31	3	127	
B 3.3-167	2	127	05/30/97	B 3.4-32	3	204	
B 3.3-168	2	127	12/02/99	B 3.4-33	3	127	
B 3.3-169	2	127	05/30/97	B 3.4-34	3	175	12/20/00
B 3.3-170	2	127		B 3.4-35	3	175	12/20/00
B 3.3-171	2	194	04/25/05	B 3.4-36	3	127	
B 3.3-172	2	194	04/25/05	B 3.4-37	3	175	12/20/00
B 3.3-173	2	127	05/30/97	B 3.4-38	3	175	07/15/05
B 3.3-174	2	127	05/30/97	B 3.4-38a	3	175	04/03/06
B 3.3-175	2	127	03/06/06	B 3.4-39	3	204	
B 3.3-176	2	127	10/30/98	B 3.4-40	3	175	12/20/00
B 3.3-177	2	127	10/30/98	B 3.4-41	3	127	
B 3.3-178	2	127		B 3.4-42	3	127	
B 3.3-179	2	127	04/24/01	B 3.4-43	3	175	12/20/00
B 3.3-180	2	127	04/24/01	B 3.4-44	3	175	04/03/06
B 3.3-181	2	127	07/29/96	B 3.4-45	3	175	12/20/00
B 3.3-182	2	175	12/20/00	B 3.4-46	3	127	05/30/00
B 3.3-183	2	175	12/20/00	B 3.4-47	3	155	05/30/00
B 3.3-184	2	175	12/20/00	B 3.4-48	3	161	05/15/02
B 3.3-185	2	175	12/20/00	B 3.4-49	3	127	05/30/00
B 3.4-1	3	127	02/24/99	B 3.4-50	3	127	05/30/00
B 3.4-2	3	127	02/24/99	B 3.4-51	3	156	03/22/01
B 3.4-3	3	127		B 3.4-52	3	156	03/22/01
B 3.4-4	3	127		B 3.4-53	3	156	03/22/01
B 3.4-5	3	127	02/24/99	B 3.4-54	3	156	04/27/05
B 3.4-6	3	127		B 3.4-55	3	203	
B 3.4-7	3	127		B 3.4-56	3	203	
B 3.4-8	3	127		B 3.4-57	3	203	
B 3.4-9	3	203		B 3.4-58	3	203	
B 3.4-10	3	127		B 3.4-59	3	203	
B 3.4-11	3	127		B 3.4-60	3	203	

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.4-61	3	203		B 3.5-11	3	127	03/03/00
B 3.4-62	3	203		B 3.5-12	3	127	03/03/00
B 3.4-63	3	203		B 3.5-13	3	127	03/03/00
B 3.4-64	3	203		B 3.5-14	3	127	03/03/00
B 3.4-65	3	203		B 3.5-15	3	127	03/03/00
B 3.4-66	3	203		B 3.5-16	3	197	07/19/05
B 3.4-67	3	203		B 3.5-17	3	127	03/03/00
B 3.4-68	3	203		B 3.5-18	3	127	03/14/02
B 3.4-69	3	203		B 3.5-19	3	127	03/14/02
B 3.4-70	3	127		B 3.5-20	3	127	07/17/01
B 3.4-71	3	204		B 3.5-20a	3	127	03/03/00
B 3.4-72	3	204		B 3.5-21	3	127	
B 3.4-73	3	204		B 3.5-22	3	127	
B 3.4-74	3	204		B 3.5-23	3	127	
B 3.4-75	3	204		B 3.5-24	3	127	
B 3.4-76	3	127		B 3.5-25	3	127	
B 3.4-77	3	127		B 3.5-26	3	127	
B 3.4-78	3	127		B 3.5-27	3	127	
B 3.4-79	3	127		B 3.5-28	3	127	
B 3.4-80	3	127	09/06/00	B 3.5-29	3	127	
B 3.4-81	3	127	09/06/00	B 3.5-30	3	127	
B 3.4-82	3	127		B 3.5-31	3	127	
B 3.4-83	3	127		B 3.5-32	3	127	
B 3.4-84	3	127		B 3.5-33	3	127	
B 3.4-85	3	127		B 3.5-34	3	127	
B 3.4-86	3	127		B 3.6-1	3	127	12/01/98
B 3.4-87	3	127		B 3.6-2	3	182	04/29/03
B 3.4-88	3	127	05/13/02	B 3.6-3	3	127	12/01/98
B 3.4-89	3	127	05/13/02	B 3.6-4	3	127	04/29/03
B 3.4-90	3	127		B 3.6-5	3	127	12/01/98
B 3.4-91	3	127		B 3.6-6	3	182	02/11/02
B 3.4-92	3	127		B 3.6-7	3	127	
B 3.4-93	3	204		B 3.6-8	3	127	
B 3.4-94	3	204		B 3.6-9	3	127	
B 3.4-95	3	204		B 3.6-10	3	127	
B 3.4-96	3	204		B 3.6-11	3	127	12/01/98
B 3.4-97	3	204		B 3.6-12	3	127	04/29/03
B 3.4-98	3	204		B 3.6-13	3	127	07/29/99
B 3.4-99	3	204		B 3.6-14	3	127	
B 3.4-100	3	204		B 3.6-15	3	127	
B 3.5-1	3	127		B 3.6-16	3	127	04/29/03
B 3.5-2	3	127		B 3.6-17	3	127	
B 3.5-3	3	127		B 3.6-18	3	127	06/09/00
B 3.5-4	3	127	05/05/03	B 3.6-19	3	127	
B 3.5-5	3	127	05/30/97	B 3.6-20	3	127	
B 3.5-6	3	127		B 3.6-21	3	127	04/29/03
B 3.5-7	3	127	07/15/98	B 3.6-22	3	127	10/24/01
B 3.5-8	3	197	07/19/05	B 3.6-23	3	201	12/12/05
B 3.5-9	3	127	07/15/98	B 3.6-24	3	201	12/12/05
B 3.5-10	3	127	07/15/98	B 3.6-24a	3	201	12/12/05
B 3.5-10a	3	197	07/19/05	B 3.6-25	3	127	04/29/03

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.6-26	3	127	04/29/03	B 3.7-20	3	127	06/02/04
B 3.6-27	3	182	07/11/02	B 3.7-21	3	127	06/02/04
B 3.6-28	3	182	02/11/02	B 3.7-22	3	127	06/02/04
B 3.6-29	3	127		B 3.7-23	3	127	07/29/99
B 3.6-30	3	127	04/29/03	B 3.7-24	3	127	12/14/00
B 3.6-31	3	182	05/02/02	B 3.7-25	3	127	
B 3.6-32	3	127		B 3.7-26	3	127	02/28/01
B 3.6-33	3	127		B 3.7-27	3	127	02/28/01
B 3.6-34	3	127		B 3.7-28	3	127	03/03/00
B 3.6-35	3	182	02/11/02	B 3.7-29	3	127	03/03/00
B 3.6-36	3	182	02/11/02	B 3.7-30	3	127	03/03/00
B 3.6-37	3	197	07/19/05	B 3.7-31	3	191	11/25/03
B 3.6-38	3	197	07/19/05	B 3.7-32	3	191	11/25/03
B 3.6-39	3	127	10/06/00	B 3.7-33	3	191	11/25/03
B 3.6-40	3	127	10/06/00	B 3.7-34	3	127	03/03/00
B 3.6-41	3	127	10/06/00	B 3.7-35	3	127	07/31/00
B 3.6-42	3	127	04/29/03	B 3.7-36	3	127	07/31/00
B 3.6-43	3	127		B 3.7-37	3	127	08/13/01
B 3.6-44	3	127		B 3.7-38	3	127	08/01/01
B 3.6-45	3	127		B 3.7-39	3	127	06/23/99
B 3.6-46	3	127		B 3.7-40	3	127	
B 3.6-47	3	127		B 3.7-41	3	127	04/03/06
B 3.6-48	3	159	10/29/99	B 3.7-42	3	127	
B 3.6-49	3	159	10/29/99	B 3.7-43	3	127	
B 3.6-50	3	159	10/29/99	B 3.7-43a	3	127	05/29/97
B 3.6-51	3	159	10/29/99	B 3.7-43b	3	127	
B 3.6-52	3	159	10/29/99	B 3.7-43c	3	129	
B 3.6-53	3	159	10/06/00	B 3.7-43d	3	129	08/09/96
B 3.6-54	3	159	10/06/00	B 3.7-43e	3	129	
B 3.6-55	3	159	10/29/99	B 3.7-43f	3	129	
B 3.6-56	3	159	10/29/99	B 3.7-43g	3	129	
B 3.6-57	3	159	10/29/99	B 3.7-43h	3	129	
B 3.7-1	3	127	08/13/01	B 3.7-43i	3	129	
B 3.7-2	3	127	08/18/98	B 3.7-43j	3	129	
B 3.7-3	3	127	08/18/98	B 3.7-44	3	127	
B 3.7-4	3	127		B 3.7-45	3	127	
B 3.7-5	3	127		B 3.7-46	3	127	
B 3.7-6	3	127		B 3.7-47	3	127	05/30/97
B 3.7-7	3	127	04/16/99	B 3.7-48	3	127	
B 3.7-8	3	127	06/23/99	B 3.7-49	3	127	10/17/01
B 3.7-9	3	127		B 3.7-50	3	197	03/07/07
B 3.7-10	3	127		B 3.7-50a	3	197	03/07/07
B 3.7-11	3	127		B 3.7-51	3	127	04/08/07
B 3.7-12	3	127		B 3.7-52	3	127	10/17/01
B 3.7-13	3	127		B 3.7-53	3	127	04/12/01
B 3.7-14	3	127	04/16/99	B 3.7-54	3	127	04/12/01
B 3.7-15	3	127		B 3.7-55	3	127	03/07/07
B 3.7-16	3	127		B 3.7-55a	3	127	03/07/07
B 3.7-17	3	127	06/02/04	B 3.7-56	3	127	06/28/99
B 3.7-18	3	127		B 3.7-57	3	127	04/25/05
B 3.7-19	3	127		B 3.7-58	3	127	01/13/99

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date	
B 3.7-59	3	128	02/05/01
B 3.7-60	3	127	08/06/03
B 3.7-61	3	128	09/16/03
B 3.7-62	3	128	02/05/01
B 3.7-62a	3	128	02/05/01
B 3.7-63	3	208	12/05/06
B 3.7-64	3	208	12/05/06
B 3.7-65	3	208	12/05/06
B 3.7-66	3	208	12/05/06
B 3.7-67	3	208	12/05/06
B 3.7-68	3	127	06/23/99
B 3.7-69	3	127	10/13/98
B 3.7-70	3	127	10/13/98
B 3.7-71	3	127	04/29/03
B 3.7-72	3	127	
B 3.7-73	3	127	
B 3.7-74	3	127	04/29/03
B 3.7-75	3	127	04/29/03
B 3.7-76	3	127	05/13/02
B 3.7-77	3	127	
B 3.7-78	3	127	
B 3.7-79	3	127	
B 3.8-1	3	127	10/06/99
B 3.8-2	3	127	10/06/99
B 3.8-3	3	127	10/06/99
B 3.8-4	3	127	10/06/99
B 3.8-5	3	127	10/06/99
B 3.8-6	3	127	10/06/99
B 3.8-7	3	197	07/19/05
B 3.8-7a	3	127	12/10/99
B 3.8-8	3	127	10/06/99
B 3.8-9	3	127	10/06/99
B 3.8-10	3	197	07/19/05
B 3.8-11	3	127	10/06/99
B 3.8-12	3	127	10/06/99
B 3.8-13	3	127	10/06/99
B 3.8-14	3	127	10/06/99
B 3.8-15	3	127	10/06/99
B 3.8-16	3	127	06/18/01
B 3.8-17	3	127	06/18/01
B 3.8-18	3	211	04/05/07
B 3.8-19	3	127	06/18/01
B 3.8-20	3	127	06/18/01
B 3.8-21	3	127	06/18/01
B 3.8-22	3	127	06/18/01
B 3.8-23	3	127	06/18/01
B 3.8-24	3	127	06/18/01
B 3.8-25	3	127	06/18/01
B 3.8-26	3	127	06/18/01
B 3.8-27	3	127	06/18/01
B 3.8-28	3	127	06/18/01
B 3.8-29	3	127	06/18/01
B 3.8-29a	3	169	06/18/01
B 3.8-29b	3	169	06/18/01
B 3.8-29c	3	169	06/18/01
B 3.8-29d	3	169	06/18/01
B 3.8-29e	3	169	06/18/01
B 3.8-29f	3	169	06/18/01
B 3.8-30	3	127	
B 3.8-31	3	127	
B 3.8-32	3	127	
B 3.8-33	3	127	
B 3.8-34	3	175	12/20/00
B 3.8-35	3	175	12/20/00
B 3.8-36	3	211	04/05/07
B 3.8-37	3	127	01/21/98
B 3.8-38	3	211	04/05/07
B 3.8-39	3	211	04/05/07
B 3.8-40	3	127	01/21/98
B 3.8-41	3	211	04/05/07
B 3.8-42	3	127	03/25/02
B 3.8-43	3	127	
B 3.8-44	3	127	03/25/02
B 3.8-45	3	127	
B 3.8-46	3	127	05/03/00
B 3.8-47	3	127	01/22/99
B 3.8-47a	3	127	01/22/99
B 3.8-48	3	127	
B 3.8-49	3	127	01/22/99
B 3.8-50	3	127	
B 3.8-51	3	127	
B 3.8-52	3	127	
B 3.8-53	3	127	01/22/99
B 3.8-54	3	127	08/05/98
B 3.8-55	3	127	08/30/04
B 3.8.55a	3	127	08/05/98
B 3.8-56	3	127	
B 3.8-57	3	127	
B 3.8-58	3	175	12/20/00
B 3.8-59	3	175	12/20/00
B 3.8-60	3	127	
B 3.8-61	3	127	
B 3.8-62	3	127	
B 3.8-63	3	127	
B 3.8-64	3	127	
B 3.8-65	3	127	
B 3.8-66	3	127	07/31/00
B 3.8-67	3	127	
B 3.8-68	3	127	
B 3.8-69	3	127	
B 3.8-70	3	127	

SAN ONOFRE UNIT 2 TECHNICAL SPECIFICATIONS (NUREG-0741)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date
B 3.8-71	3	127				
B 3.8-72	3	127				
B 3.8-73	3	175	12/20/00			
B 3.8-74	3	175	12/20/00			
B 3.8-75	3	127				
B 3.8-76	3	127				
B 3.8-77	3	127				
B 3.8-78	3	127				
B 3.8-79	3	127				
B 3.8-80	3	127				
B 3.8-81	3	127				
B 3.8-82	3	127				
B 3.8-83	3	127	01/11/07			
B 3.8-84	3	127				
B 3.8-85	3	127				
B 3.8-86	3	175	12/20/00			
B 3.8-87	3	175	12/20/00			
B 3.9-1	3	127				
B 3.9-2	3	127				
B 3.9-3	3	175	12/20/00			
B 3.9-4	3	127				
B 3.9-5	3	127				
B 3.9-6	3	175	12/20/00			
B 3.9-7	3	127				
B 3.9-8	3	127				
B 3.9-9	3	127	12/01/98			
B 3.9-10	3	193	02/18/05			
B 3.9-11	3	127	10/10/97			
B 3.9-12	3	127	10/10/97			
B 3.9-13	3	193	02/18/05			
B 3.9-13a	3	193	02/18/05			
B 3.9-14	3	127	10/10/97			
B 3.9-15	3	127	10/10/97			
B 3.9-16	3	127				
B 3.9-17	3	127	07/15/05			
B 3.9-17a	3	127	04/03/06			
B 3.9-18	3	175	07/15/05			
B 3.9-19	3	175	12/20/00			
B 3.9-20	3	127				
B 3.9-21	3	127	05/30/97			
B 3.9-22	3	127	07/15/05			
B 3.9-23	3	127	04/03/06			
B 3.9-24	3	175	12/20/00			
B 3.9-24a	3	175	12/20/00			
B 3.9-25	3	127	05/30/97			
B 3.9-26	3	127	10/13/98			
B 3.9-27	3	127	10/13/98			

SAN ONOFRE UNIT 2
FACILITY OPERATING LICENSE

LIST OF EFFECTIVE PAGES

Facility Operating License

Page No.	Amendment No.
1	185
2	209
3	211
4	185
5	185
6	185
7	185
8	205
9	185

(3) SCE, pursuant to the Act and 10 CFR Part 70, to receive, possess, and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

(4) SCE, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;

(5) SCE, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and

(6) SCE, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of San Onofre Nuclear Generating Station, Units 1 and 2 and by the decommissioning of San Onofre Nuclear Generating Station Unit 1.

C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

Southern California Edison Company (SCE) is authorized to operate the facility at reactor core power levels not in excess of full power (3438 megawatts thermal).

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 211, are hereby incorporated in the license. Southern California Edison Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
SR 3.8.1.3	----------NOTES---------- 1. DG loadings may include gradual loading as recommended by the manufacturer. 2. Momentary transients outside the load range do not invalidate this test. 3. This Surveillance shall be conducted on only one DG at a time. 4. This SR shall be preceded by, and immediately follow without shutdown, a successful performance of SR 3.8.1.2 or SR 3.8.1.7. 5. To ensure Operability of an AVR, it must have been aligned to the DG during the performance of SR 3.8.1.2 and SR 3.8.1.3 within the last 60 days, plus any allowance per SR 3.0.2. ---------- Verify each DG is synchronized and loaded, and operates for ≥ 60 minutes at a load ≥ 4450 kW and ≤ 4700 kW.	As specified in Table 3.8.1-1
SR 3.8.1.4	Verify each day tank contains ≥ 31.5 inches of fuel oil.	31 days
SR 3.8.1.5	Check for and remove accumulated water from each day tank.	31 days
SR 3.8.1.6	Verify the fuel oil transfer system operates to transfer fuel oil from storage tank to the day tank.	31 days

(continued)

3.8 ELECTRICAL POWER SYSTEMS

3.8.3 Diesel Fuel Oil, Lube Oil, and Starting Air

LCO 3.8.3 The stored diesel fuel oil, lube oil, and starting air subsystem shall be within limits for each required diesel generator (DG).

APPLICABILITY: When associated DG is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each DG.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more DGs with fuel volume < 48,400 gallons and > 41,800 gallons in storage tank during MODE 1,2,3 or 4.	A.1 Restore fuel oil level to within limits.	48 hours
B. One or more DGs with lube oil inventory < TS min and ≥ TS inop.	B.1 Restore lube oil inventory to within limits.	48 hours
C. One required DG with fuel volume in the storage tank < 43,600 gallons and > 37,400 gallons during MODE 5 or 6.	C.1 Restore fuel oil level to within limits.	48 hours
D. One or more DGs with stored fuel oil total particulates not within limits.	D.1 Restore fuel oil total particulates to within limits.	7 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. One or more DGs with new fuel oil properties not within limits.	E.1 Restore stored fuel oil properties to within limits.	30 days
F. One or more DGs with starting air receiver pressure < 175 psig and ≥ 136 psig.	F.1 Restore starting air receiver pressure to ≥ 175 psig.	48 hours
G. Required Action and associated Completion Time of Condition A, B, C, D, E or F not met. OR One or more DGs with diesel fuel oil, lube oil, or starting air subsystem not within limits for reasons other than Condition A, B, C, D, E, or F.	G.1 Declare associated DG inoperable.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.8.3.1	Verify each fuel oil storage tank contains ≥ 48,400 gallons in MODE 1,2,3 or 4 and ≥ 43,600 gallons in MODE 5 or 6.	31 days

(continued)

BASES (continued)

BACKGROUND (continued)

TABLE 1
Individual Room Coolers

1E COOLER	BACKUP COOLER	EQUIPMENT IN ROOM
ME417	ME414	P017, P015, P012
ME416	ME413	P019, P016, P013
ME517	ME445 (1E)	P018
ME445	ME517 (1E)	P018
ME455	ME448	P026
ME454	ME450 (NON-1E) or ME518	P025
ME518	ME450 (NON-1E) or ME454	P025
ME453	ME449	P024
ME438	RADWASTE FANS: ME433 or ME434 (supply) -AND- MA192 or MA193 (exhaust)	P190
ME435	Same as above for ME438	P192
ME436	ME437 (1E) or Same as above for ME438	P191
ME437	ME436 (1E) or Same as above for ME438	P191
ME255	ME430 and MA165, or alternate method	50 ft. swgr
ME257	ME430 and MA165, or alternate method	50 ft. swgr
ME441	ME442 (1E) or FUEL HANDLING BUILDING FANS: MA359 or MA360 (supply) -AND- MA316 or MA317 (exhaust)	P009

(continued)

BASES (continued)

SURVEILLANCE REQUIREMENTS

SR 3.8.1.4 (continued)

full load plus 10%. The level is expressed as an equivalent volume in inches. The 31.5 inch level includes instrument uncertainties and corresponds to the minimum requirement of 389 gallons of fuel oil.

The 31 day Frequency is adequate to assure that a sufficient supply of fuel oil is available, since low level alarms are provided and unit operators would be aware of any large uses of fuel oil during this period.

SR 3.8.1.5

Microbiological fouling is a major cause of fuel oil degradation. There are numerous microorganisms that can grow in fuel oil and cause fouling, but all must have a water environment in order to survive. Removal of water from the fuel oil day tanks once every 31 days eliminates the necessary environment for microbial survival in the day tanks. This is the most effective means of controlling microbiological fouling. In addition, it eliminates the potential for water entrainment in the fuel oil during DG operation. Water may come from any of several sources, including condensation, ground water, rain water, contaminated fuel oil, and from breakdown of the fuel oil by microorganisms. Frequent checking for and removal of accumulated water minimizes fouling and provides data regarding the watertight integrity of the fuel oil system. The Surveillance Frequencies are established by Regulatory Guide 1.137 (Ref. 10). This SR is for preventive maintenance. The presence of water does not necessarily represent failure of this SR provided the accumulated water is removed during the performance of this Surveillance.

SR 3.8.1.6

This Surveillance demonstrates that for each OPERABLE DG at least one fuel oil transfer pump operates and transfers fuel oil from its associated storage tank to its associated day tank. This is required to support continuous operation of the standby power source. This Surveillance provides assurance that at least one fuel oil transfer pump is OPERABLE, the fuel oil piping system is intact, the fuel delivery piping is not obstructed, and the controls and control systems for the fuel transfer system are OPERABLE.

(continued)

B 3.8 ELECTRICAL POWER SYSTEMS

B 3.8.3 Diesel Fuel Oil, Lube Oil, and Starting Air

BASES

BACKGROUND

Each diesel generator (DG) is provided with a storage tank having a fuel oil capacity sufficient to operate that diesel for a period of 7 days, while the DG is supplying maximum post loss of coolant accident load demand as discussed in the UFSAR, Section 9.5.4.2 (Ref. 1). The maximum load demand is calculated assuming the maximum load demand is supplied by one DG. This onsite fuel oil capacity is sufficient to operate the DGs for longer than the time to replenish the onsite supply from outside sources.

Fuel oil is transferred from storage tank to day tank by either of two transfer pumps associated with each storage tank. Redundancy of pumps and piping precludes the failure of one pump, or the rupture of any pipe, valve, or tank to result in the loss of more than one DG. All outside tanks, pumps, and piping are located underground.

For proper operation of the standby DGs, it is necessary to ensure the proper quality of the fuel oil. San Onofre has a Diesel Fuel Oil (DFO) testing program which ensures proper fuel oil quality. The program includes purchasing, receipt testing of new fuel oil, and periodic analyses of the stored fuel. San Onofre is not committed to the fuel analysis portion of Regulatory Guide 1.137 (Ref. 2) or ANSI N195-1976 (Ref. 3); however, these standards were utilized as guidance in the development of the DFO testing program.

The DG lubrication system is designed to provide sufficient lubrication to permit proper operation of its associated DG under all loading conditions. The system is required to circulate the lube oil to the diesel engine working surfaces and to remove excess heat generated by friction during operation. Each engine oil sump contains an inventory capable of supporting a minimum of 7 days of continuous operation. This supply is sufficient supply to allow the operator to replenish lube oil from outside sources.

(continued)

BASES (continued)

APPLICABILITY

The AC sources (LCO 3.8.1 and LCO 3.8.2) are required to ensure the availability of the required power to shut down the reactor and maintain it in a safe shutdown condition after an AOO or a postulated DBA. Since stored diesel fuel oil, lube oil, and starting air subsystems support LCO 3.8.1 and LCO 3.8.2, stored diesel fuel oil, lube oil and starting air are required to be within limits when the associated DG is required to be OPERABLE.

ACTIONS

A.1

In this Condition, the 7 day fuel oil supply (48,400 gallons) for a DG is not available. However, the Condition is restricted to fuel oil level reductions that maintain at least a 6 day supply (41,800 gallons). These circumstances may be caused by events such as full load operation required after an inadvertent start while at minimum required level; or feed and bleed operations, which may be necessitated by increasing particulate levels or any number of other oil quality degradations. This restriction allows sufficient time for obtaining the requisite replacement volume and performing the analyses required prior to addition of fuel oil to the tank. A period of 48 hours is considered sufficient to complete restoration of the required level prior to declaring the DG inoperable. This period is acceptable based on the remaining capacity (> 6 days), the fact that procedures will be initiated to obtain replenishment, and, the low probability of an event during this brief period.

B.1

With lube oil inventory less than the TSmin marking in the dipstick, sufficient lubricating oil to support 7 days of continuous DG operation at full load conditions may not be available. However, the Condition is restricted to lube oil volume reductions that maintain at least a 6 day supply

(continued)

BASES (continued)

ACTIONS

B.1 (continued)

greater than or equal to the TSinop marking in the dipstick). This restriction allows sufficient time to obtain the requisite replacement volume. The TSmin mark corresponds to 369.4 gals for the 16 cylinder DG and 412.1 gals for the 20 cylinder DG. The TSinop mark corresponds to 347.5 gals for the 16 cylinder DG and 386.2 gals for the 20 cylinder DG. A period of 48 hours is considered sufficient to complete restoration of the required volume prior to declaring the DG inoperable. This period is acceptable based on the remaining capacity (> 6 days), the low rate of usage, the fact that procedures will be initiated to obtain replenishment, and the low probability of an event during this brief period.

C.1

In this Condition the 7 day fuel oil supply (43,600 gallons) for a DG during Mode 5 or 6 is not available. However, the Condition is restricted to fuel oil level reductions that maintain at least a 6 day supply (37,400 gallons). These circumstances may be caused by events such as full load operations required after an inadvertent start while at minimum required level; or feed and bleed operations, which may be necessitated by increasing particulate levels or any number of other oil quality degradations. This restriction allows sufficient time for obtaining the requisite replacement volume and performing the analyses required prior to addition of fuel oil to the tank. A period of 48 hours is considered sufficient to complete restoration of the required level prior to declaring the DG inoperable. This period is acceptable based on the remaining capacity (> 6 days), the fact that procedures will be initiated to obtain replenishment, and the low probability of an event during this brief period.

D.1

This Condition is entered as a result of a failure to meet the acceptance criterion of SR 3.8.3.3. Normally, trending of particulate levels allows sufficient time to correct high particulate levels prior to reaching the limit of

(continued)

BASES (continued)

ACTIONS

F.1 (continued)

are accomplished on the first attempt, and the low probability of an event during this brief period.

G.1

With a Required Action and associated Completion Time not met, or one or more DGs with diesel fuel oil or lube oil not within limits for reasons other than addressed by Conditions A through F, the associated DG may be incapable of performing its intended function and must be immediately declared inoperable.

SURVEILLANCE REQUIREMENTS

SR 3.8.3.1

This SR provides verification that there is an adequate inventory of fuel oil (≥ 48,400 gallons in Mode 1, 2, 3, or 4 and ≥ 43,600 gallons in Mode 5 or 6) in the storage tanks to support each DG's operation for 7 days at full load. The 7 day period is sufficient time to place the unit in a safe shutdown condition and to bring in replenishment fuel from an offsite location.

The 31 day Frequency is adequate to ensure that a sufficient supply of fuel oil is available, since low level alarms are provided and unit operators would be aware of any large uses of fuel oil during this period.

SR 3.8.3.2

This Surveillance ensures that sufficient lube oil inventory is available to support at least 7 days of full load operation for each DG. The TS min (412.1 gal for the 20 cylinder engine and 369.4 gal for the 16 cylinder engine) requirements are based on the DG manufacturer consumption values for the run time of the DG.

(continued)

SONGS UNIT 3 SINGLE-SIDED

Operating License & Technical Specification/Licensee Controlled Specification

AMD 211/203, B05-010, & B06-002

Revise Unit 3 Operating License by removing pages and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and/or dates and contain marginal/lines indicating the areas of change. **Please direct any questions regarding filing of information to: (949) 368-6557 or email CDM Controlled Manuals Desk.**

REMOVE:	INSERT:
VOLUME 1	**VOLUME 1**
BEHIND: List of Effective Pages – "Blue Tab"	**BEHIND**: List of Effective Pages – "Blue Tab"
List of Effective Pages – Pages 1-12 3/07/07	List of Effective Pages – Pages 1-12 4/8/07
BEHIND: Facility Operating License "Blue Tab"	**BEHIND:** Facility Operating License "Blue Tab"
Facility Operating License Page 2 AMD 201	Facility Operating License Page 2 AMD 203
Page 3 AMD 201	Page 3 AMD 203
BEHIND: Electrical Power Systems "Blue Tab"	**BEHIND:** Electrical Power Systems "Blue Tab"
Page 3.8-6 AMD 170	Page 3.8-6 AMD 203
Page 3.8-20 AMD 174	Page 3.8-20 AMD 203
Page 3.8-21 AMD 174	Page 3.8-21 AMD 203
VOLUME 3	**VOLUME 3**
BEHIND: B 3.7 "Blue Tab"	**BEHIND:** B 3.7 "Blue Tab"
Page B 3.7-51 AMD 116 4/12/01	Page B 3.7-51 AMD 116 4/08/07
BEHIND: B 3.8 - "Blue Tab"	**BEHIND:** B 3.8 - "Blue Tab"
Page B 3.8-18 AMD 116 6/18/01	Page B 3.8-18 AMD 203 4/05/07
Page B 3.8-36 AMD 116 No Date Listed	Page B 3.8-36 AMD 203 4/05/07
Page B 3.8-38 AMD 116 3/25/02	Page B 3.8-38 AMD 203 4/05/07
Page B 3.8-39 AMD 116 3/25/02	Page B 3.8-39 AMD 203 4/05/07
Page B 3.8-41 AMD 116 3/25/02	Page B 3.8-41 AMD 203 4/05/07

Filing Instructions Reviewed & Approved:

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APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date
LOEP-1	1	203	04/08/07	2.0-1	1	199
LOEP-2	1	200	01/25/07	2.0-2	1	199
LOEP-3	1	203	04/04/07	3.0-1	1	116
LOEP-4	1	203	04/04/07	3.0-2	1	116
LOEP-4a	1	159		3.0-3	1	116
LOEP-5	1	199	12/21/06	3.0-4	1	177
LOEP-6	1	191	11/18/05	3.0-5	1	116
LOEP-7	1	188	07/19/05	3.1-1	1	191
LOEP-8	1	200	12/05/06	3.1-2	1	191
LOEP-9	1	196	09/19/06	3.1-3	1	191
LOEP-10	1	188	04/08/07	3.1-4	1	116
LOEP-11	1	203	04/05/07	3.1-5	1	116
LOEP-12	1	184	03/07/07	3.1-6	1	116
ii	1	116		3.1-7	1	191
iii	1	200		3.1-8	1	191
iv	1	200		3.1-9	1	116
v	1	188		3.1-10	1	116
vi	1	116		3.1-11	1	126
vii	1	200		3.1-12	1	191
viii	1	200		3.1-13	1	116
1.1-1	1	116		3.1-14	1	191
1.1-2	1	116		3.1-15	1	191
1.1-3	1	179		3.1-16	1	191
1.1-4	1	196		3.1-17	1	116
1.1-5	1	195		3.1-18	1	116
1.1-6	1	191		3.1-19	1	116
1.1-7	1	116		3.1-20	1	116
1.2-1	1	116		3.1-21	1	154
1.2-2	1	116		3.1-22	1	166
1.2-3	1	116		3.1-23	1	116
1.3-1	1	116		3.1-24	1	116
1.3-2	1	116		3.1-25	1	116
1.3-3	1	116		3.1-26	1	116
1.3-4	1	116		3.1-27	1	116
1.3-5	1	116		3.1-28	1	116
1.3-6	1	116		3.1-29	1	116
1.3-7	1	116		3.2-1	1	116
1.3-8	1	116		3.2-2	1	116
1.3-9	1	116		3.2-3	1	116
1.3-10	1	116		3.2-4	1	116
1.3-11	1	116		3.2-5	1	116
1.3-12	1	116		3.2-6	1	116
1.3-13	1	116		3.2-7	1	116
1.4-1	1	116		3.2-8	1	116
1.4-2	1	116		3.2-9	1	191
1.4-3	1	116		3.2-10	1	116
1.4-4	1	116		3.2-11	1	116
				3.2-12	1	116

APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date
3.3-1	1	116		3.3-50	1	116
3.3-2	1	116		3.3-51	1	166
3.3-3	1	116		3.3-52	1	116
3.3-4	1	116		3.4-1	1	141
3.3-5	1	116		3.4-2	1	141
3.3-6	1	139		3.4-3	1	141
3.3-7	1	122		3.4-4	1	116
3.3-8	1	142		3.4-5	1	195
3.3-9	1	142		3.4-6	1	195
3.3-10	1	116		3.4-7	1	195
3.3-11	1	116		3.4-8	1	195
3.3-12	1	122		3.4-9	1	195
3.3-13	1	139		3.4-10	1	195
3.3-14	1	116		3.4-11	1	195
3.3-15	1	116		3.4-12	1	195
3.3-16	1	122		3.4-13	1	116
3.3-17	1	116		3.4-14	1	188
3.3-18	1	116		3.4-15	1	116
3.3-19	1	116		3.4-16	1	166
3.3-20	1	122		3.4-17	1	166
3.3-21	1	116		3.4-18	1	195
3.3-22	1	148		3.4-19	1	166
3.3-23	1	148		3.4-20	1	116
3.3-24	1	148		3.4-21	1	166
3.3-25	1	148		3.4-22	1	195
3.3-26	1	116		3.4-23	1	166
3.3-27	1	116		3.4-24	1	166
3.3-28	1	116		3.4-25	1	166
3.3-29	1	122		3.4-26	1	152
3.3-30	1	116		3.4-27	1	146
3.3-31	1	116		3.4-28	1	147
3.3-32	1	116		3.4-29	1	147
3.3-33	1	116		3.4-30	1	195
3.3-34	1	187		3.4-31	1	195
3.3-35	1	121		3.4-32	1	116
3.3-36	1	121		3.4-33	1	195
3.3-37	1	121		3.4-34	1	134
3.3-38	1	121		3.4-35	1	195
3.3-39	1	121		3.4-36	1	116
3.3-40	1	166		3.4-37	1	196
3.3-41	1	151		3.4-38	1	196
3.3-42	1	200	01/25/07	3.4-39	1	116
3.3-43	1	200	01/25/07	3.4-40	1	116
3.3-44	1	116		3.4-41	1	116
3.3-45	1	185		3.4-42	1	116
3.3-46	1	185		3.4-43	1	116
3.3-47	1	185		3.4-44	1	116
3.3-48	1	116		3.4-45	1	116
3.3-49	1	116				

APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date	Page No.	Volume	Amendment/Date
3.4-46	1	116	3.7-6	1	116
3.4-47	1	116	3.7-7	1	116
3.4-48	1	116	3.7-8	1	116
3.4-49	1	116	3.7-9	1	116
3.4-50	1	116	3.7-10	1	116
3.4-51	1	196	3.7-11	1	155
3.4-52	1	196	3.7-12	1	116
3.5-1	1	131	3.7-13	1	116
3.5-2	1	124	3.7-14	1	182
3.5-3	1	116	3.7-15	1	139
3.5-4	1	131	3.7-16	1	153
3.5-5	1	116	3.7-17	1	116
3.5-6	1	181	3.7-18	1	116
3.5-7	1	116	3.7-19	1	116
3.5-8	1	116	3.7-19a	1	118
3.5-9	1	116	3.7-19b	1	118
3.5-10	1	116	3.7-19c	1	118
3.5-11	1	116	3.7-20	1	116
3.6-1	1	116	3.7-21	1	116
3.6-2	1	135	3.7-22	1	172
3.6-3	1	116	3.7-23	1	116
3.6-4	1	116	3.7-24	1	172
3.6-5	1	116	3.7-25	1	168
3.6-6	1	135	3.7-26	1	168
3.6-7	1	116	3.7-27	1	200 01/25/07
3.6-8	1	116	3.7-28	1	200 01/25/07
3.6-9	1	116	3.7-29	1	116
3.6-10	1	116	3.7-30	1	116
3.6-11	1	116	3.7-31	1	116
3.6-12	1	156	3.7-32	1	120
3.6-13	1	192	3.7-33	1	120
3.6-14	1	192	3.7-34	1	120
3.6-15	1	116	3.7-35	1	116
3.6-16	1	116	3.8-1	1	133
3.6-17	1	116	3.8-2	1	133
3.6-18	1	162	3.8-3	1	116
3.6-19	1	116	3.8-4	1	149
3.6-20	1	116	3.8-5	1	170
3.6-21	1	116	3.8-6	1	203
3.6-22	1	116	3.8-7	1	149
3.6-23	1	150	3.8-8	1	170
3.6-24	1	150	3.8-9	1	149
3.6-25	1	116	3.8-10	1	149
3.6-26	1	116	3.8-11	1	149
3.7-1	1	116	3.8-12	1	149
3.7-2	1	116	3.8-13	1	160
3.7-3	1	116	3.8-14	1	170
3.7-4	1	154	3.8-15	1	149
3.7-5	1	116	3.8-16	1	116

APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date
3.8-17	1	116
3.8-18	1	166
3.8-19	1	116
3.8-20	1	203
3.8-21	1	203
3.8-22	1	116
3.8-23	1	116
3.8-24	1	116
3.8-25	1	116
3.8-26	1	116
3.8-27	1	166
3.8-28	1	116
3.8-29	1	116
3.8-30	1	116
3.8-31	1	116
3.8-32	1	116
3.8-33	1	116
3.8-34	1	116
3.8-35	1	116
3.8-36	1	166
3.8-37	1	116
3.8-38	1	116
3.8-39	1	116
3.8-40	1	166
3.8-41	1	116
3.9-1	1	116
3.9-2	1	166
3.9-3	1	116
3.9-4	1	184
3.9-5	1	116
3.9-6	1	166
3.9-6a	1	166
3.9-7	1	144
3.9-8	1	144
3.9-9	1	166
3.9-9a	1	144
3.9-10	1	123
4.0-1	1	190
4.0-2	1	116
4.0-3	1	116
4.0-4	1	120
4.0-5	1	120
5.0-1	1	199
5.0-2	1	199
5.0-3	1	199
5.0-4	1	199
5.0-5	1	199
5.0-6	1	175
5.0-7	1	116
5.0-8	1	199
5.0-9	1	169
5.0-10	1	116
5.0-11	1	161
5.0-12	1	169
5.0-13	1	196
5.0-14	1	196
5.0-15	1	198
5.0-15a	1	198
5.0-16	1	196
5.0-17	1	200
5.0-18	1	196
5.0-19	1	196
5.0-20	1	196
5.0-20a	1	189
5.0-20b	1	135
5.0-21	1	116
5.0-22	1	116
5.0-23	1	186
5.0-24	1	116
5.0-25	1	116
5.0-26	1	191
5.0-27	1	195
5.0-27a	1	195
5.0-28	1	196
5.0-29	1	196
5.0-30	1	188
5.0-31	1	199

APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date
Bibliographic Data Sheet		
Appendix B		dated Nov. 15, 1982
Environmental Protection Plan		dated Nov. 15, 1982
1-1	1	dated Nov. 15, 1982
2-1	1	dated Nov. 15, 1982
2-2	1	dated Nov. 15, 1982
3-1	1	dated Nov. 15, 1982
3-2	1	159
4-1	1	159
4-2	1	dated Nov. 15, 1982
Appendix C	1	dated Nov. 15, 1982
Page 2	1	dated Nov. 15, 1982
Page 3	1	dated Nov. 15, 1982

APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 2.0-1	2	183	07/19/04	B 3.1-27	2	116	
B 2.0-2	2	116		B 3.1-28	2	191	11/18/05
B 2.0-3	2	199	12/21/06	B 3.1-29	2	191	11/18/05
B 2.0-3a	2	183	07/19/04	B 3.1-30	2	191	11/18/05
B 2.0-4	2	199	12/21/06	B 3.1-31	2	116	
B 2.0-5	2	199	12/21/06	B 3.1-32	2	116	05/02/97
B 2.0-6	2	116		B 3.1-33	2	116	
B 2.0-7	2	116		B 3.1-34	2	116	05/02/97
B 2.0-8	2	199	12/21/06	B 3.1-35	2	116	
B 2.0-9	2	199	12/21/06	B 3.1-36	2	116	
B 3.0-1	2	116		B 3.1-37	2	191	11/18/05
B 3.0-2	2	116		B 3.1-38	2	191	11/18/05
B 3.0-3	2	116		B 3.1-39	2	116	
B 3.0-4	2	199	12/21/06	B 3.1-40	2	116	
B 3.0-5	2	116		B 3.1-41	2	116	
B 3.0-6	2	116		B 3.1-42	2	116	
B 3.0-7	2	116		B 3.1-43	2	191	11/18/05
B 3.0-8	2	116		B 3.1-43a	2	191	11/18/05
B 3.0-9	2	116		B 3.1-44	2	191	11/18/05
B 3.0-10	2	116		B 3.1-45	2	116	
B 3.0-11	2	116		B 3.1-46	2	191	11/18/05
B 3.0-12	2	116	12/01/98	B 3.1-47	2	116	
B 3.0-13	2	177	10/25/02	B 3.1-48	2	116	
B 3.0-14	2	177	05/08/02	B 3.1-49	2	116	
B 3.0-15	2	177	05/08/02	B 3.1-50	2	116	
B 3.1-1	2	191	11/18/05	B 3.1-51	2	116	
B 3.1-2	2	191	11/18/05	B 3.1-52	2	116	
B 3.1-3	2	191	11/18/05	B 3.1-53	2	116	
B 3.1-4	2	191	11/18/05	B 3.1-54	2	116	08/03/01
B 3.1-5	2	Deleted		B 3.1-55	2	116	08/03/01
B 3.1-6	2	Deleted		B 3.1-56	2	116	08/03/01
B 3.1-7	2	191	11/18/05	B 3.1-57	2	116	08/03/01
B 3.1-8	2	191	11/18/05	B 3.1-58	2	116	08/03/01
B 3.1-9	2	191	11/18/05	B 3.1-58a	2	116	08/03/01
B 3.1-10	2	191	11/18/05	B 3.1-58b	2	116	08/03/01
B 3.1-11	2	Deleted		B 3.1-59	2	191	11/18/05
B 3.1-12	2	Deleted		B 3.1-60	2	116	11/05/96
B 3.1-13	2	116		B 3.1-61	2	116	05/03/00
B 3.1-14	2	116		B 3.1-62	2	166	12/20/00
B 3.1-15	2	191	11/18/05	B 3.1-63	2	166	05/21/02
B 3.1-16	2	116		B 3.1-63a	2	166	12/20/00
B 3.1-17	2	191	11/18/05	B 3.1-64	2	116	
B 3.1-18	2	116		B 3.1-65	2	116	
B 3.1-19	2	116	01/03/02	B 3.1-66	2	116	
B 3.1-20	2	116		B 3.1-67	2	116	
B 3.1-21	2	116	01/03/02	B 3.1-68	2	116	
B 3.1-22	2	116	05/30/97	B 3.1-69	2	116	
B 3.1-23	2	116		B 3.1-70	2	116	
B 3.1-24	2	116		B 3.1-71	2	116	
B 3.1-25	2	116	05/02/97	B 3.1-72	2	116	
B 3.1-26	2	116	07/29/99				

APPENDIX A TO LICENSE NO. NPF-15

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.1-73	2	116		B 3.3-2	2	116	07/17/97
B 3.1-74	2	116		B 3.3-3	2	116	
B 3.1-75	2	116		B 3.3-4	2	116	
B 3.1-76	2	116		B 3.3-5	2	116	
B 3.1-77	2	116	05/29/97	B 3.3-6	2	116	
B 3.1-78	2	116	05/29/97	B 3.3-7	2	116	
B 3.1-79	2	116		B 3.3-8	2	116	
B 3.1-80	2	116		B 3.3-9	2	116	
B 3.2-1	2	116		B 3.3-10	2	116	
B 3.2-2	2	116		B 3.3-11	2	116	
B 3.2-3	2	116		B 3.3-12	2	116	03/12/99
B 3.2-4	2	183	07/19/04	B 3.3-13	2	116	
B 3.2-5	2	116		B 3.3-14	2	116	
B 3.2-6	2	116		B 3.3-15	2	116	
B 3.2-7	2	116		B 3.3-16	2	116	07/17/97
B 3.2-8	2	116		B 3.3-17	2	116	09/16/03
B 3.2-9	2	116		B 3.3-18	2	116	03/12/99
B 3.2-10	2	116		B 3.3-19	2	116	
B 3.2-11	2	116		B 3.3-20	2	116	
B 3.2-12	2	183	07/19/04	B 3.3-21	2	116	03/12/99
B 3.2-13	2	116		B 3.3-22	2	116	03/12/99
B 3.2-14	2	116		B 3.3-23	2	116	03/12/99
B 3.2-15	2	116		B 3.3-24	2	116	
B 3.2-16	2	116		B 3.3-25	2	116	12/30/96
B 3.2-17	2	116		B 3.3-26	2	116	12/30/96
B 3.2-18	2	116		B 3.3-26a	2	116	12/30/96
B 3.2-19	2	183	07/19/04	B 3.3-27	2	116	
B 3.2-20	2	116		B 3.3-28	2	116	
B 3.2-21	2	116		B 3.3-29	2	116	
B 3.2-22	2	116		B 3.3-30	2	116	05/29/97
B 3.2-23	2	116		B 3.3-31	2	116	05/02/97
B 3.2-24	2	116		B 3.3-32	2	116	03/12/99
B 3.2-25	2	116		B 3.3-33	2	116	03/12/99
B 3.2-26	2	116		B 3.3-34	2	116	03/12/99
B 3.2-27	2	116		B 3.3-35	2	116	03/12/99
B 3.2-28	2	116		B 3.3-36	2	116	03/12/99
B 3.2-29	2	183	07/19/04	B 3.3-37	2	179	
B 3.2-30	2	191	11/18/05	B 3.3-37a	2	179	09/16/03
B 3.2-31	2	116		B 3.3-38	2	116	
B 3.2-32	2	116		B 3.3-39	2	116	07/17/97
B 3.2-33	2	116		B 3.3-40	2	116	12/09/98
B 3.2-34	2	116		B 3.3-41	2	116	12/09/98
B 3.2-35	2	116		B 3.3-42	2	116	
B 3.2-36	2	116		B 3.3-43	2	116	
B 3.2-37	2	116		B 3.3-44	2	116	12/30/96
B 3.2-38	2	183	07/19/04	B 3.3-45	2	116	12/30/96
B 3.2-39	2	116		B 3.3-46	2	116	12/30/96
B 3.2-40	2	116		B 3.3-47	2	116	12/30/96
B 3.2-41	2	116		B 3.3-48	2	116	09/18/98
B 3.3-1	2	116		B 3.3-49	2	116	09/18/98

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.3-50	2	116	09/18/98	B 3.3-100	2	188	07/19/05
B 3.3-51	2	116	02/11/02	B 3.3-101	2	116	10/06/99
B 3.3-51a	2	116	09/18/98	B 3.3-102	2	116	10/06/99
B 3.3-52	2	116		B 3.3-103	2	116	10/06/99
B 3.3-53	2	116	07/17/97	B 3.3-103a	2	179	
B 3.3-54	2	116		B 3.3-103b	2	148	09/16/03
B 3.3-55	2	116		B 3.3-103c	2	179	
B 3.3-56	2	116		B 3.3-104	2	116	
B 3.3-57	2	116		B 3.3-105	2	116	
B 3.3-58	2	116		B 3.3-106	2	116	
B 3.3-59	2	116		B 3.3-107	2	116	
B 3.3-60	2	116	09/18/98	B 3.3-108	2	116	
B 3.3-61	2	116	09/18/98	B 3.3-109	2	116	
B 3.3-62	2	116	09/18/98	B 3.3-110	2	116	
B 3.3-63	2	116		B 3.3-111	2	116	
B 3.3-64	2	116	07/17/97	B 3.3-112	2	116	
B 3.3-65	2	116		B 3.3-113	2	116	
B 3.3-66	2	116		B 3.3-114	2	116	
B 3.3-67	2	116		B 3.3-115	2	116	
B 3.3-68	2	116		B 3.3-116	2	116	
B 3.3-69	2	116		B 3.3-117	2	116	
B 3.3-70	2	116		B 3.3-118	2	116	
B 3.3-71	2	116		B 3.3-119	2	116	12/30/96
B 3.3-72	2	116	12/30/96	B 3.3-120	2	116	12/30/96
B 3.3-73	2	116	12/30/96	B 3.3-121	2	116	12/30/96
B 3.3-74	2	116	12/30/96	B 3.3-122	2	116	12/30/96
B 3.3-75	2	116	05/28/97	B 3.3-123	2	116	05/28/97
B 3.3-76	2	116	12/30/96	B 3.3-124	2	116	05/28/97
B 3.3-77	2	116	07/17/97	B 3.3-125	2	116	05/28/97
B 3.3-78	2	116		B 3.3-126	2	116	
B 3.3-79	2	116		B 3.3-127	2	116	
B 3.3-80	2	116		B 3.3-128	2	116	
B 3.3-81	2	116		B 3.3-129	2	116	09/06/00
B 3.3-82	2	116		B 3.3-130	2	116	
B 3.3-83	2	116		B 3.3-131	2	116	09/06/00
B 3.3-84	2	116		B 3.3-132	2	116	05/29/97
B 3.3-85	2	116		B 3.3-133	2	116	07/13/99
B 3.3-86	2	116		B 3.3-134	2	165	12/14/00
B 3.3-87	2	116	02/24/99	B 3.3-135	2	116	05/28/97
B 3.3-88	2	116	07/17/97	B 3.3-136	2	116	06/09/00
B 3.3-89	2	116		B 3.3-137	2	116	05/28/97
B 3.3-90	2	116		B 3.3-138	2	116	05/28/97
B 3.3-91	2	116		B 3.3-139	2	116	05/28/97
B 3.3-92	2	116		B 3.3-140	2	116	05/28/97
B 3.3-93	2	116		B 3.3-141	2	116	05/28/97
B 3.3-94	2	116		B 3.3-142	2	116	05/28/97
B 3.3-95	2	116	10/06/99	B 3.3-143	2	116	05/28/97
B 3.3-96	2	116	10/06/99	B 3.3-144	2	116	05/28/97
B 3.3-97	2	116	10/06/99	B 3.3-145	2	116	06/27/97
B 3.3-98	2	116	07/18/01	B 3.3-146	2	116	03/19/98
B 3.3-99	2	116	10/06/99				

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.3-147	2	116	06/27/97	B 3.4-12	3	116	
B 3.3-148	2	166	12/20/00	B 3.4-13	3	116	
B 3.3-149	2	166	12/20/00	B 3.4-14	3	116	
B 3.3-150	2	116	08/20/01	B 3.4-15	3	195	
B 3.3-151	2	116	06/27/97	B 3.4-16	3	195	
B 3.3-152	2	200	12/05/06	B 3.4-17	3	188	07/19/05
B 3.3-153	2	200	12/05/06	B 3.4-18	3	188	07/19/05
B 3.3-154	2	200	12/05/06	B 3.4-19	3	116	
B 3.3-155	2	200	12/05/06	B 3.4-20	3	188	07/19/05
B 3.3-156	2	200	12/05/06	B 3.4-21	3	188	07/19/05
B 3.3-157	2	200	12/05/06	B 3.4-22	3	116	
B 3.3-158	2	116	12/17/98	B 3.4-23	3	116	
B 3.3-159	2	116	06/08/00	B 3.4-24	3	196	
B 3.3-160	2	116	06/23/99	B 3.4-25	3	116	
B 3.3-161	2	116	05/30/97	B 3.4-26	3	116	
B 3.3-162	2	116	05/30/97	B 3.4-27	3	116	
B 3.3-163	2	119	05/30/97	B 3.4-28	3	196	
B 3.3-164	2	116	05/30/97	B 3.4-29	3	166	12/20/00
B 3.3-165	2	116	05/30/97	B 3.4-30	3	166	12/20/00
B 3.3-166	2	185	04/25/05	B 3.4-31	3	116	
B 3.3-167	2	116	05/30/97	B 3.4-32	3	196	
B 3.3-168	2	116	12/02/99	B 3.4-33	3	116	
B 3.3-169	2	116	05/30/97	B 3.4-34	3	166	12/20/00
B 3.3-170	2	116		B 3.4-35	3	166	12/20/00
B 3.3-171	2	185	04/25/05	B 3.4-36	3	116	
B 3.3-172	2	185	04/25/05	B 3.4-37	3	166	12/20/00
B 3.3-173	2	116	05/30/97	B 3.4-38	3	166	07/15/05
B 3.3-174	2	116	05/30/97	B 3.4-38a	3	166	04/03/06
B 3.3-175	2	116	03/06/06	B 3.4-39	3	196	
B 3.3-176	2	116	10/30/98	B 3.4-40	3	166	12/20/00
B 3.3-177	2	116	10/30/98	B 3.4-41	3	116	
B 3.3-178	2	116		B 3.4-42	3	116	
B 3.3-179	2	116	04/24/01	B 3.4-43	3	166	12/20/00
B 3.3-180	2	116	04/24/01	B 3.4-44	3	166	04/03/06
B 3.3-181	2	116	07/29/96	B 3.4-45	3	166	12/20/00
B 3.3-182	2	166	12/20/00	B 3.4-46	3	116	05/30/00
B 3.3-183	2	166	12/20/00	B 3.4-47	3	146	05/30/00
B 3.3-184	2	166	12/20/00	B 3.4-48	3	152	05/15/02
B 3.3-185	2	166	12/20/00	B 3.4-49	3	116	05/30/00
B 3.4-1	3	116	02/24/99	B 3.4-50	3	116	05/30/00
B 3.4-2	3	116	02/24/99	B 3.4-51	3	147	03/22/01
B 3.4-3	3	116		B 3.4-52	3	147	03/22/01
B 3.4-4	3	116		B 3.4-53	3	147	03/22/01
B 3.4-5	3	116	02/24/99	B 3.4-54	3	147	04/27/05
B 3.4-6	3	116		B 3.4-55	3	195	
B 3.4-7	3	116		B 3.4-56	3	195	
B 3.4-8	3	116		B 3.4-57	3	195	
B 3.4-9	3	195		B 3.4-58	3	195	
B 3.4-10	3	116		B 3.4-59	3	195	
B 3.4-11	3	116		B 3.4-60	3	195	

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.4-61	3	195		B 3.5-11	3	116	03/03/00
B 3.4-62	3	195		B 3.5-12	3	116	03/03/00
B 3.4-63	3	195		B 3.5-13	3	116	03/03/00
B 3.4-64	3	195		B 3.5-14	3	116	03/03/00
B 3.4-65	3	195		B 3.5-15	3	116	03/03/00
B 3.4-66	3	195		B 3.5-16	3	188	07/19/05
B 3.4-67	3	195		B 3.5-17	3	116	03/03/00
B 3.4-68	3	195		B 3.5-18	3	116	03/14/02
B 3.4-69	3	195		B 3.5-19	3	116	03/14/02
B 3.4-70	3	116		B 3.5-20	3	116	07/17/01
B 3.4-71	3	196		B 3.5-20a	3	116	03/03/00
B 3.4-72	3	196		B 3.5-21	3	116	
B 3.4-73	3	196		B 3.5-22	3	116	
B 3.4-74	3	196		B 3.5-23	3	116	
B 3.4-75	3	196		B 3.5-24	3	116	
B 3.4-76	3	116		B 3.5-25	3	116	
B 3.4-77	3	116		B 3.5-26	3	116	
B 3.4-78	3	116		B 3.5-27	3	116	
B 3.4-79	3	116		B 3.5-28	3	116	
B 3.4-80	3	116	09/06/00	B 3.5-29	3	116	
B 3.4-81	3	116	09/06/00	B 3.5-30	3	116	
B 3.4-82	3	116		B 3.5-31	3	116	
B 3.4-83	3	116		B 3.5-32	3	116	
B 3.4-84	3	116		B 3.5-33	3	116	
B 3.4-85	3	116		B 3.5-34	3	116	
B 3.4-86	3	116		B 3.6-1	3	116	12/01/98
B 3.4-87	3	116		B 3.6-2	3	173	08/06/03
B 3.4-88	3	116	05/13/02	B 3.6-3	3	116	08/06/03
B 3.4-89	3	116	05/13/02	B 3.6-4	3	116	04/29/03
B 3.4-90	3	116		B 3.6-5	3	116	12/01/98
B 3.4-91	3	116		B 3.6-6	3	173	02/11/02
B 3.4-92	3	116		B 3.6-7	3	116	
B 3.4-93	3	196		B 3.6-8	3	116	
B 3.4-94	3	196		B 3.6-9	3	116	
B 3.4-95	3	196		B 3.6-10	3	116	
B 3.4-96	3	196		B 3.6-11	3	116	12/01/98
B 3.4-97	3	196		B 3.6-12	3	116	04/29/03
B 3.4-98	3	196		B 3.6-13	3	116	07/29/99
B 3.4-99	3	196		B 3.6-14	3	116	
B 3.4-100	3	196		B 3.6-15	3	116	
B 3.5-1	3	116		B 3.6-16	3	116	04/29/03
B 3.5-2	3	116		B 3.6-17	3	116	
B 3.5-3	3	116		B 3.6-18	3	116	06/09/00
B 3.5-4	3	116	05/05/03	B 3.6-19	3	116	
B 3.5-5	3	116	05/30/97	B 3.6-20	3	116	
B 3.5-6	3	116		B 3.6-21	3	116	04/29/03
B 3.5-7	3	116	07/15/98	B 3.6-22	3	116	10/24/01
B 3.5-8	3	188	07/19/05	B 3.6-23	3	192	12/12/05
B 3.5-9	3	116	07/15/98	B 3.6-24	3	192	12/12/05
B 3.5-10	3	116	07/15/98	B 3.6-24a	3	192	12/12/05
B 3.5-10a	3	188	07/19/05	B 3.6-25	3	116	04/29/03

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.6-26	3	116	04/29/03	B 3.7-20	3	116	06/02/04
B 3.6-27	3	173	07/11/02	B 3.7-21	3	116	06/02/04
B 3.6-28	3	173	02/11/02	B 3.7-22	3	116	06/02/04
B 3.6-29	3	116		B 3.7-23	3	116	01/05/01
B 3.6-30	3	116	04/29/03	B 3.7-24	3	116	12/14/00
B 3.6-31	3	173	05/02/02	B 3.7-25	3	116	
B 3.6-32	3	116		B 3.7-26	3	116	02/28/01
B 3.6-33	3	116		B 3.7-27	3	116	02/28/01
B 3.6-34	3	116		B 3.7-28	3	116	03/03/00
B 3.6-35	3	173	02/11/02	B 3.7-29	3	116	03/03/00
B 3.6-36	3	173	02/11/02	B 3.7-30	3	116	03/03/00
B 3.6-37	3	188	07/19/05	B 3.7-31	3	182	11/25/03
B 3.6-38	3	188	07/19/05	B 3.7-32	3	182	11/25/03
B 3.6-39	3	116	10/06/00	B 3.7-33	3	182	11/25/03
B 3.6-40	3	116	10/06/00	B 3.7-34	3	116	03/03/00
B 3.6-41	3	116	10/06/00	B 3.7-35	3	116	03/02/01
B 3.6-42	3	116	04/29/03	B 3.7-36	3	116	07/31/00
B 3.6-43	3	116		B 3.7-37	3	116	08/13/01
B 3.6-44	3	116		B 3.7-38	3	116	08/01/01
B 3.6-45	3	116		B 3.7-39	3	116	06/23/99
B 3.6-46	3	116		B 3.7-40	3	116	
B 3.6-47	3	116		B 3.7-41	3	116	04/03/06
B 3.6-48	3	150	10/29/99	B 3.7-42	3	116	
B 3.6-49	3	150	10/29/99	B 3.7-43	3	116	
B 3.6-50	3	150	10/29/99	B 3.7-43a	3	116	05/29/97
B 3.6-51	3	150	10/29/99	B 3.7-43b	3	116	
B 3.6-52	3	150	10/29/99	B 3.7-43c	3	118	
B 3.6-53	3	150	10/06/00	B 3.7-43d	3	118	07/29/96
B 3.6-54	3	150	10/06/00	B 3.7-43e	3	118	
B 3.6-55	3	150	10/29/99	B 3.7-43f	3	118	
B 3.6-56	3	150	10/29/99	B 3.7-43g	3	118	
B 3.6-57	3	150	10/29/99	B 3.7-43h	3	118	
B 3.7-1	3	116	08/13/01	B 3.7-43i	3	118	
B 3.7-2	3	116	08/18/98	B 3.7-43j	3	118	
B 3.7-3	3	116	08/18/98	B 3.7-44	3	116	
B 3.7-4	3	116		B 3.7-45	3	116	
B 3.7-5	3	116		B 3.7-46	3	116	
B 3.7-6	3	116		B 3.7-47	3	116	05/30/97
B 3.7-7	3	116	04/16/99	B 3.7-48	3	116	
B 3.7-8	3	116	06/23/99	B 3.7-49	3	116	10/17/01
B 3.7-9	3	116		B 3.7-50	3	188	03/07/07
B 3.7-10	3	116		B 3.7-50a	3	188	03/07/07
B 3.7-11	3	116		B 3.7-51	3	116	04/08/07
B 3.7-12	3	116		B 3.7-52	3	116	10/17/01
B 3.7-13	3	116		B 3.7-53	3	116	04/12/01
B 3.7-14	3	116	04/16/99	B 3.7-54	3	116	04/12/01
B 3.7-15	3	116		B 3.7-55	3	116	03/07/07
B 3.7-16	3	116		B 3.7-55a	3	116	03/07/07
B 3.7-17	3	116	06/02/04	B 3.7-56	3	116	06/28/99
B 3.7-18	3	116		B 3.7-57	3	116	04/25/05
B 3.7-19	3	116		B 3.7-58	3	116	03/19/98

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date	
B 3.7-59	3	117	02/05/01	B 3.8-29	3	116	06/18/01
B 3.7-60	3	116	10/17/01	B 3.8-29a	3	160	06/18/01
B 3.7-61	3	117	09/16/03	B 3.8-29b	3	160	06/18/01
B 3.7-62	3	117	02/05/01	B 3.8-29c	3	160	06/18/01
B 3.7-62a	3	117	02/05/01	B 3.8-29d	3	160	06/18/01
B 3.7-63	3	200	12/05/06	B 3.8-29e	3	160	06/18/01
B 3.7-64	3	200	12/05/06	B 3.8-29f	3	160	06/18/01
B 3.7-65	3	200	12/05/06	B 3.8-30	3	116	
B 3.7-66	3	200	12/05/06	B 3.8-31	3	116	
B 3.7-67	3	200	12/05/06	B 3.8-32	3	116	
B 3.7-68	3	116	10/13/98	B 3.8-33	3	116	
B 3.7-69	3	116	10/13/98	B 3.8-34	3	166	12/20/00
B 3.7-70	3	116	10/13/98	B 3.8-35	3	166	12/20/00
B 3.7-71	3	116	04/29/03	B 3.8-36	3	203	04/05/07
B 3.7-72	3	116		B 3.8-37	3	116	01/21/98
B 3.7-73	3	116		B 3.8-38	3	203	04/05/07
B 3.7-74	3	116	04/29/03	B 3.8-39	3	203	04/05/07
B 3.7-75	3	116	04/29/03	B 3.8-40	3	116	01/21/98
B 3.7-76	3	116	05/13/02	B 3.8-41	3	203	04/05/07
B 3.7-77	3	116		B 3.8-42	3	116	03/25/02
B 3.7-78	3	116		B 3.8-43	3	116	
B 3.7-79	3	116		B 3.8-44	3	116	03/25/02
B 3.8-1	3	116	10/06/99	B 3.8-45	3	116	
B 3.8-2	3	116	10/06/99	B 3.8-46	3	116	05/03/00
B 3.8-3	3	116	10/06/99	B 3.8-47	3	116	01/22/99
B 3.8-4	3	116	10/06/99	B 3.8-47a	3	116	01/22/99
B 3.8-5	3	116	10/06/99	B 3.8-48	3	116	
B 3.8-6	3	116	10/06/99	B 3.8-49	3	116	01/22/99
B 3.8-7	3	188	07/19/05	B 3.8-50	3	116	
B 3.8-7a	3	116	12/10/99	B 3.8-51	3	116	
B 3.8-8	3	116	10/06/99	B 3.8-52	3	116	
B 3.8-9	3	116	10/06/99	B 3.8-53	3	116	01/22/99
B 3.8-10	3	188	07/19/05	B 3.8-54	3	116	08/05/98
B 3.8-11	3	116	10/06/99	B 3.8-55	3	116	08/30/04
B 3.8-12	3	116	10/06/99	B 3.8-55a	3	116	08/05/98
B 3.8-13	3	116	10/06/99	B 3.8-56	3	116	
B 3.8-14	3	116	10/06/99	B 3.8-57	3	116	
B 3.8-15	3	116	10/06/99	B 3.8-58	3	166	12/20/00
B 3.8-16	3	116	06/18/01	B 3.8-59	3	166	12/20/00
B 3.8-17	3	116	06/18/01	B 3.8-60	3	116	
B 3.8-18	3	203	04/05/07	B 3.8-61	3	116	
B 3.8-19	3	116	06/18/01	B 3.8-62	3	116	
B 3.8-20	3	116	06/18/01	B 3.8-63	3	116	
B 3.8-21	3	116	06/18/01	B 3.8-64	3	116	
B 3.8-22	3	116	06/18/01	B 3.8-65	3	116	
B 3.8-23	3	116	06/18/01	B 3.8-66	3	116	07/31/00
B 3.8-24	3	116	06/18/01	B 3.8-67	3	116	
B 3.8-25	3	116	06/18/01	B 3.8-68	3	116	
B 3.8-26	3	116	06/18/01	B 3.8-69	3	116	
B 3.8-27	3	116	06/18/01	B 3.8-70	3	116	
B 3.8-28	3	116	06/18/01	B 3.8-71	3	116	

SAN ONOFRE UNIT 3 TECHNICAL SPECIFICATIONS (NUREG-0952)
LIST OF EFFECTIVE PAGES

Page No.	Volume	Amendment/Date		Page No.	Volume	Amendment/Date
B 3.8-72	3	116				
B 3.8-73	3	166	12/20/00			
B 3.8-74	3	166	12/20/00			
B 3.8-75	3	116				
B 3.8-76	3	116				
B 3.8-77	3	116				
B 3.8-78	3	116				
B 3.8-79	3	116				
B 3.8-80	3	116				
B 3.8-81	3	116				
B 3.8-82	3	116				
B 3.8-83	3	116	01/11/07			
B 3.8-84	3	116				
B 3.8-85	3	116				
B 3.8-86	3	166	12/20/00			
B 3.8-87	3	166	12/20/00			
B 3.9-1	3	116				
B 3.9-2	3	116				
B 3.9-3	3	166	12/20/00			
B 3.9-4	3	116				
B 3.9-5	3	116				
B 3.9-6	3	166	12/20/00			
B 3.9-7	3	116				
B 3.9-8	3	116				
B 3.9-9	3	116	12/01/98			
B 3.9-10	3	184	02/18/05			
B 3.9-11	3	116	10/10/97			
B 3.9-12	3	116	10/10/97			
B 3.9-13	3	184	02/18/05			
B 3.9-13a	3	184	02/18/05			
B 3.9-14	3	116	10/10/97			
B 3.9-15	3	116	10/10/97			
B 3.9-16	3	116				
B 3.9-17	3	116	07/15/05			
B 3.9-17a	3	116	04/03/06			
B 3.9-18	3	166	07/15/05			
B 3.9-19	3	166	12/20/00			
B 3.9-20	3	116				
B 3.9-21	3	116	05/30/97			
B 3.9-22	3	116	07/15/05			
B 3.9-23	3	116	04/03/06			
B 3.9-24	3	166	12/20/00			
B 3.9-24a	3	166	12/20/00			
B 3.9-25	3	116	05/30/97			
B 3.9-26	3	116	10/13/98			
B 3.9-27	3	116	10/13/98			

SAN ONOFRE UNIT 3
FACILITY OPERATING LICENSE

LIST OF EFFECTIVE PAGES

Facility Operating License

Page No.	Amendment No.
1	176
2	201
3	203
4	176
5	176
6	176
7	197
8	176

(3) SCE, pursuant to the Act and 10 CFR Part 70, to receive, possess, and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

(4) SCE, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to receive, possess, and use at any time any byproduct, source and special nuclear materials as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;

(5) SCE, pursuant to the Act and 10 CFR Parts 30, 40, and 70 to receive, possess, and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and

(6) SCE, pursuant to the Act and 10 CFR Parts 30, 40, and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of San Onofre Nuclear Generating Station, Units 1 and 3 and by the decommissioning of San Onofre Nuclear Generating Station Unit 1.

C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

Southern California Edison Company (SCE) is authorized to operate the facility at reactor core power levels not in excess of full power (3438 megawatts thermal).

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 203, are hereby incorporated in the license. Southern California Edison Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
SR 3.8.1.3	----------NOTES---------- 1. DG loadings may include gradual loading as recommended by the manufacturer. 2. Momentary transients outside the load range do not invalidate this test. 3. This Surveillance shall be conducted on only one DG at a time. 4. This SR shall be preceded by, and immediately follow without shutdown, a successful performance of SR 3.8.1.2 or SR 3.8.1.7. 5. To ensure Operability of an AVR, it must have been aligned to the DG during the performance of SR 3.8.1.2 and SR 3.8.1.3 within the last 60 days, plus any allowance per SR 3.0.2. ---------- Verify each DG is synchronized and loaded, and operates for ≥ 60 minutes at a load ≥ 4450 kW and ≤ 4700 kW.	As specified in Table 3.8.1-1
SR 3.8.1.4	Verify each day tank contains ≥ 31.5 inches of fuel oil.	31 days
SR 3.8.1.5	Check for and remove accumulated water from each day tank.	31 days
SR 3.8.1.6	Verify the fuel oil transfer system operates to transfer fuel oil from storage tank to the day tank.	31 days

(continued)

3.8 ELECTRICAL POWER SYSTEMS

3.8.3 Diesel Fuel Oil, Lube Oil, and Starting Air

LCO 3.8.3 The stored diesel fuel oil, lube oil, and starting air subsystem shall be within limits for each required diesel generator (DG).

APPLICABILITY: When associated DG is required to be OPERABLE.

ACTIONS

----------NOTE----------
Separate Condition entry is allowed for each DG.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more DGs with fuel volume < 48,400 gallons and > 41,800 gallons in storage tank during MODE 1,2,3 or 4.	A.1 Restore fuel oil level to within limits.	48 hours
B. One or more DGs with lube oil inventory < TS min and ≥ TS inop.	B.1 Restore lube oil inventory to within limits.	48 hours
C. One required DG with fuel volume in the storage tank < 43,600 gallons and > 37,400 gallons during MODE 5 or 6.	C.1 Restore fuel oil level to within limits.	48 hours
D. One or more DGs with stored fuel oil total particulates not within limits.	D.1 Restore fuel oil total particulates to within limits.	7 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. One or more DGs with new fuel oil properties not within limits.	E.1 Restore stored fuel oil properties to within limits.	30 days
F. One or more DGs with starting air receiver pressure < 175 psig and ≥ 136 psig.	F.1 Restore starting air receiver pressure to ≥ 175 psig.	48 hours
G. Required Action and associated Completion Time of Condition A, B, C, D, E or F not met. <u>OR</u> One or more DGs with diesel fuel oil, lube oil, or starting air subsystem not within limits for reasons other than Condition A, B, C, D, E, or F.	G.1 Declare associated DG inoperable.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.8.3.1	Verify each fuel oil storage tank contains ≥ 48,400 gallons in MODE 1,2,3 or 4 and ≥ 43,600 gallons level in MODE 5 or 6.	31 days

(continued)

BASES (continued)

BACKGROUND (continued)

TABLE 1
Individual Room Coolers

1E COOLER	BACKUP COOLER	EQUIPMENT IN ROOM
ME417	ME414	P017, P015, P012
ME416	ME413	P019, P016, P013
ME517	ME445 (1E)	P018
ME445	ME517 (1E)	P018
ME455	ME448	P026
ME454	ME450 (NON-1E) or ME518	P025
ME518	ME450 (NON-1E) or ME454	P025
ME453	ME449	P024
ME438	RADWASTE FANS: ME433 or ME434 (supply) -AND- MA192 or MA193 (exhaust)	P190
ME435	Same as above for ME438	P192
ME436	ME437 (1E) or Same as above for ME438	P191
ME437	ME436 (1E) or Same as above for ME438	P191
ME255	ME430 and MA165, or alternate method	50 ft. swgr
ME257	ME430 and MA165, or alternate method	50 ft. swgr
ME441	ME442 (1E) or FUEL HANDLING BUILDING FANS: MA359 or MA360 (supply) -AND- MA316 or MA317 (exhaust)	P009

(continued)

BASES (continued)

SURVEILLANCE REQUIREMENTS

SR 3.8.1.4 (continued)

full load plus 10%. The level is expressed as an equivalent volume in inches. The 31.5 inch level includes instrument uncertainties and corresponds to the minimum requirement of 389 gallons of fuel oil.

The 31 day Frequency is adequate to assure that a sufficient supply of fuel oil is available, since low level alarms are provided and unit operators would be aware of any large uses of fuel oil during this period.

SR 3.8.1.5

Microbiological fouling is a major cause of fuel oil degradation. There are numerous microorganisms that can grow in fuel oil and cause fouling, but all must have a water environment in order to survive. Removal of water from the fuel oil day tanks once every 31 days eliminates the necessary environment for microbial survival in the day tanks. This is the most effective means of controlling microbiological fouling. In addition, it eliminates the potential for water entrainment in the fuel oil during DG operation. Water may come from any of several sources, including condensation, ground water, rain water, contaminated fuel oil, and from breakdown of the fuel oil by microorganisms. Frequent checking for and removal of accumulated water minimizes fouling and provides data regarding the watertight integrity of the fuel oil system. The Surveillance Frequencies are established by Regulatory Guide 1.137 (Ref. 10). This SR is for preventive maintenance. The presence of water does not necessarily represent failure of this SR provided the accumulated water is removed during the performance of this Surveillance.

SR 3.8.1.6

This Surveillance demonstrates that for each OPERABLE DG at least one fuel oil transfer pump operates and transfers fuel oil from its associated storage tank to its associated day tank. This is required to support continuous operation of the standby power source. This Surveillance provides assurance that at least one fuel oil transfer pump is OPERABLE, the fuel oil piping system is intact, the fuel delivery piping is not obstructed, and the controls and control systems for the fuel transfer system are OPERABLE.

(continued)

B 3.8 ELECTRICAL POWER SYSTEMS

B 3.8.3 Diesel Fuel Oil, Lube Oil, and Starting Air

BASES

BACKGROUND

Each diesel generator (DG) is provided with a storage tank having a fuel oil capacity sufficient to operate that diesel for a period of 7 days, while the DG is supplying maximum post loss of coolant accident load demand as discussed in the UFSAR, Section 9.5.4.2 (Ref. 1). The maximum load demand is calculated assuming the maximum load demand is supplied by one DG. This onsite fuel oil capacity is sufficient to operate the DGs for longer than the time to replenish the onsite supply from outside sources.

Fuel oil is transferred from storage tank to day tank by either of two transfer pumps associated with each storage tank. Redundancy of pumps and piping precludes the failure of one pump, or the rupture of any pipe, valve, or tank to result in the loss of more than one DG. All outside tanks, pumps, and piping are located underground.

For proper operation of the standby DGs, it is necessary to ensure the proper quality of the fuel oil. San Onofre has a Diesel Fuel Oil (DFO) testing program which ensures proper fuel oil quality. The program includes purchasing, receipt testing of new fuel oil, and periodic analyses of the stored fuel. San Onofre is not committed to the fuel analysis portion of Regulatory Guide 1.137 (Ref. 2) or ANSI N195-1976 (Ref. 3); however, these standards were utilized as guidance in the development of the DFO testing program.

The DG lubrication system is designed to provide sufficient lubrication to permit proper operation of its associated DG under all loading conditions. The system is required to circulate the lube oil to the diesel engine working surfaces and to remove excess heat generated by friction during operation. Each engine oil sump contains an inventory capable of supporting a minimum of 7 days of continuous operation. This supply is sufficient supply to allow the operator to replenish lube oil from outside sources.

(continued)

BASES (continued)

APPLICABILITY

The AC sources (LCO 3.8.1 and LCO 3.8.2) are required to ensure the availability of the required power to shut down the reactor and maintain it in a safe shutdown condition after an AOO or a postulated DBA. Since stored diesel fuel oil, lube oil, and starting air subsystems support LCO 3.8.1 and LCO 3.8.2, stored diesel fuel oil, lube oil and starting air are required to be within limits when the associated DG is required to be OPERABLE.

ACTIONS

A.1

In this Condition, the 7 day fuel oil supply (48,400 gallons) for a DG is not available. However, the Condition is restricted to fuel oil level reductions that maintain at least a 6 day supply (41,800 gallons). These circumstances may be caused by events such as full load operation required after an inadvertent start while at minimum required level; or feed and bleed operations, which may be necessitated by increasing particulate levels or any number of other oil quality degradations. This restriction allows sufficient time for obtaining the requisite replacement volume and performing the analyses required prior to addition of fuel oil to the tank. A period of 48 hours is considered sufficient to complete restoration of the required level prior to declaring the DG inoperable. This period is acceptable based on the remaining capacity (> 6 days), the fact that procedures will be initiated to obtain replenishment, and the low probability of an event during this brief period.

B.1

With lube oil inventory less than the TSmin marking in the dipstick, sufficient lubricating oil to support 7 days of continuous DG operation at full load conditions may not be available. However, the Condition is restricted to lube oil volume reductions that maintain at least a 6 day supply

(continued)

BASES (continued)

ACTIONS

B.1 (continued)

greater than or equal to the TSinop marking in the dipstick). This restriction allows sufficient time to obtain the requisite replacement volume. The TSmin mark corresponds to 369.4 gals for the 16 cylinder DG and 412.1 gals for the 20 cylinder DG. The TSinop mark corresponds to 347.5 gals for the 16 cylinder DG and 386.2 gals for the 20 cylinder DG. A period of 48 hours is considered sufficient to complete restoration of the required volume prior to declaring the DG inoperable. This period is acceptable based on the remaining capacity (> 6 days), the low rate of usage, the fact that procedures will be initiated to obtain replenishment, and the low probability of an event during this brief period.

C.1

In this Condition the 7 day fuel oil supply (43,600 gallons) for a DG during Mode 5 or 6 is not available. However, the Condition is restricted to fuel oil level reductions that maintain at least a 6 day supply (37,400 gallons). These circumstances may be caused by events such as full load operations required after an inadvertent start while at minimum required level; or feed and bleed operations, which may be necessitated by increasing particulate levels or any number of other oil quality degradations. This restriction allows sufficient time for obtaining the requisite replacement volume and performing the analyses required prior to addition of fuel oil to the tank. A period of 48 hours is considered sufficient to complete restoration of the required level prior to declaring the DG inoperable. This period is acceptable based on the remaining capacity (> 6 days), the fact that procedures will be initiated to obtain replenishment, and the low probability of an event during this brief period.

D.1

This Condition is entered as a result of a failure to meet the acceptance criterion of SR 3.8.3.3. Normally, trending of particulate levels allows sufficient time to correct high particulate levels prior to reaching the limit of

(continued)

BASES (continued)

ACTIONS

F.1 (continued)

are accomplished on the first attempt, and the low probability of an event during this brief period.

G.1

With a Required Action and associated Completion Time not met, or one or more DGs with diesel fuel oil or lube oil not within limits for reasons other than addressed by Conditions A through F, the associated DG may be incapable of performing its intended function and must be immediately declared inoperable.

SURVEILLANCE REQUIREMENTS

SR 3.8.3.1

This SR provides verification that there is an adequate inventory of fuel oil (≥ 48,400 gallons in Mode 1, 2, 3, or 4 and ≥ 43,600 gallons in Mode 5 or 6) in the storage tanks to support each DG's operation for 7 days at full load. The 7 day period is sufficient time to place the unit in a safe shutdown condition and to bring in replenishment fuel from an offsite location.

The 31 day Frequency is adequate to ensure that a sufficient supply of fuel oil is available, since low level alarms are provided and unit operators would be aware of any large uses of fuel oil during this period.

SR 3.8.3.2

This Surveillance ensures that sufficient lube oil inventory is available to support at least 7 days of full load operation for each DG. The TS min (412.1 gal for the 20 cylinder engine and 369.4 gal for the 16 cylinder engine) requirements are based on the DG manufacturer consumption values for the run time of the DG.

(continued)