



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
West Coast Region
1201 NE Lloyd Boulevard, Suite 1100
PORTLAND, OREGON 97232-1274

April 17, 2019

Kelly Susewind
Director, Washington Department of Fish and Wildlife
600 Capitol Way North
Olympia, Washington 98501

Curtis E. Melcher
Director, Oregon Department of Fish and Wildlife
4034 Fairview Industrial Drive SE
Salem, Oregon 97302

Ed Schriever
Director, Idaho Department of Fish and Game
P.O. Box 25
Boise, Idaho 83707

Dear Directors Susewind, Melcher, and Schriever:

I approve your February 6, 2019, request to adopt the Pinniped-Fishery Interaction Task Force (Task Force) recommendation regarding the identification of predatory pinnipeds for removal in the vicinity of Bonneville Dam to protect at-risk salmonids. With adoption of the Task Force recommendation, the National Marine Fisheries Service (NMFS) is issuing a revised authorization to the states of Washington, Oregon, and Idaho (states) pursuant to section 120 of the Marine Mammal Protection Act (MMPA) to lethally remove certain individually identifiable California sea lions in the vicinity of Bonneville Dam. This authorization replaces NMFS' June 28, 2016, authorization.

The Task Force met on March 1 and 2, 2017,¹ to evaluate the effectiveness of states' permitted intentional lethal taking at Bonneville Dam for the years 2012 through 2016. One of the recommendations provided to NMFS by the Task Force was to change the criteria in Term and Condition 1 of the 2016 authorization to expedite adding animals to the list of predatory California sea lions authorized for immediate removal. This change will allow for the expedited removal of qualified California sea lions (i.e., placement in permanent captivity or killing).

Based on the Task Force recommendation, the states requested that the U.S. Army Corps of Engineers' Fisheries Field Unit (FFU) conduct an analysis to examine whether the changes proposed by the Task Force would improve the states' ability to identify animals for removal.

¹ MMPA Section 120 subsection (c)(5) states that "After implementation of an approved application, the Pinniped-Fishery Interaction Task Force shall evaluate the effectiveness of the permitted intentional lethal taking or alternative actions implemented. If implementation was ineffective in eliminating the problem interaction, the Task Force shall recommend additional actions. If the implementation was effective, the Task Force shall so advise the Secretary, and the Secretary shall disband the Task Force."



The FFU analyzed the data presented in 2015 by the states in the Bonneville Field Report for the number of California sea lions that could have qualified for removal if the conditions of *5 days observed **and** one salmonid kill* were changed to *5 days observed **or** one salmonid kill*. Their findings indicated that changing the criteria would have led to a 66 percent increase in the number of California sea lions added to the removal list. Changing criteria from **and** to **or** would therefore significantly improve the effectiveness of the lethal removal program.

Based on the results of the FFU evaluation, NMFS is formally adopting the Task Force recommendation to change **and** to **or** in Term and Condition 1 of the 2016 authorization. Attached to this letter is an updated list of predatory California sea lions authorized for immediate removal that includes newly qualified sea lions based on the adoption of the Task Force recommendation (Appendix).

All other terms and conditions remain substantively unchanged. For the revised Terms and Condition, NMFS consolidated provision “c” in Term and Condition 1 into both criteria “a” and “b” for clarity and readability. As in the 2016 authorization, lethal removal is authorized only if the states are in compliance with the following terms and conditions.

Revised Terms and Conditions

1) Beginning on April 17, 2019, the states may lethally remove wherever found (except for breeding rookeries) individually identifiable predatory California sea lions that are having a significant negative impact on ESA-listed salmonids. NMFS considers such animals to be individually identifiable predatory California sea lions that are having a significant negative impact on ESA-listed salmonids if they display natural or applied features that allow them to be individually distinguished from other California sea lions and:

- a) have been observed eating salmonids at Bonneville Dam, in the "observation area" below the dam, in the fish ladders, or above the dam, between January 1 and May 31 of any year and are sighted at Bonneville Dam after they have been subjected to active nonlethal deterrence; or
- b) have been observed at Bonneville Dam on a total of any 5 days (consecutive days, days within a single season, or days over multiple years) between January 1 and May 31 of any year and are sighted at Bonneville Dam after they have been subjected to active nonlethal deterrence.

2) The states shall provide NMFS with a report no later than March 1, 2017, that explains what additional safeguards the states have considered to the means by which individually identifiable California sea lions are identified².

3) The California sea lions currently identified as meeting the revised description in Term and Condition 1 above are included herein as a list of predatory California sea lions authorized

² On January 6, 2017, Oregon Department of Fish and Wildlife submitted a letter to NMFS that fulfilled the requirements of Term and Condition 2.

for immediate removal (Appendix). In consultation with the states, the NMFS West Coast Regional Administrator may periodically amend the list to accurately report those individuals that meet the description in Term and Condition 1 and thus are authorized for removal. Such amendments shall be in writing.

- 4) The states may not remove more than 1 percent of the potential biological removal level (PBR) annually. The current PBR for this population of California sea lions is 9,200 animals (Carretta et al. 2016). NMFS periodically revises the PBR of California sea lions as new information becomes available. Any revised PBR calculations would be reported in annual marine mammal stock assessment reports and be provided to the states by NMFS.
- 5) The states shall appoint an Institutional Animal Care and Use Committee (IACUC) composed of a veterinarian, marine mammal biologists, and a non-affiliated member who will represent the community, to advise the states on protocols for capture, holding, and euthanasia of individually identifiable predatory California sea lions.
- 6) The states, in consultation with NMFS, will assume the lead role for the capture of predatory sea lions. The states may euthanize individually identifiable predatory sea lions that are captured in a trap immediately. However, should NMFS notify the states that a pre-approved permanent holding facility (research, zoo, or aquarium) is willing to accept the animal(s), the states shall maintain the animal in a temporary holding facility approved by the IACUC for up to 48 hours. If the pre-approved research, zoo, or aquarium facility (or their designee) does not collect an animal within 48 hours of its capture, the states may euthanize it. The method of euthanizing captured predatory sea lions must be approved by the IACUC.
- 7) Free-ranging individually identifiable predatory California sea lions may be shot by a qualified marksman shooting from land, the dam, or other shoreline structures, so long as the identified sea lion is: (1) hauled out on shore or on the concrete apron along the north side of Cascade Island; (2) hauled out on the flow deflectors along the base of the Bonneville Dam spillway; or (3) in the water so long as it is no greater than 50 feet from shore or apron on the north side of Cascade Island or from the dam at powerhouses one and two. The firearms for shooting at distances greater than 25 yards shall include a high-powered rifle (.240 caliber or above). For shooting at distances less than 25 yards a high-powered rifle or, a 12-gauge or above shotgun loaded with slugs or 00 buckshot, may be used. Ammunition shall not contain lead.
- 8) The states shall make all reasonable efforts to retrieve carcasses of animals that have been shot. The states shall monitor nearby downstream areas for stranded animals that have been shot but not retrieved immediately.
- 9) Safety and security during lethal removal activities shall be provided by the states of Oregon and Washington in coordination with the Columbia Basin Law Enforcement Council, and the Corps of Engineers, Portland District. The states shall establish an Incident Command Center (ICC) during lethal removal activities. The ICC shall direct safety and security and provide a

media interface. The ICC shall coordinate security and safety activities with the Corps of Engineers, the U.S. Coast Guard, and other agencies as necessary.

- 10) The states shall notify the Corps of Engineers, Portland District, and the Project Manager at Bonneville Locks and Dam, prior to lethal removal operations. The ICC shall consult with the Corps of Engineers regarding road closures or changes to visitation on Corps of Engineers property/dam facilities.
- 11) The states shall ensure that the transfer or disposal of any carcass, tissue, or parts is in accordance with applicable law. At NMFS' request and to the extent practicable the states shall make the carcasses, or tissues from them, of sea lions killed pursuant to this authorization available for use in scientific research or for educational purposes.
- 12) The states shall report any permanent removals of predatory sea lions (either transferred to permanent captivity or euthanized) to the Regional Administrator, NMFS, West Coast Region, within 3 days following removal.
- 13) The states shall develop and implement a monitoring plan to evaluate: 1) the impacts of predation, 2) the effectiveness of non-lethal deterrence, and 3) the effectiveness of permanent removal of individually identifiable predatory sea lions as a method to reduce adult salmonid mortality. To the extent practicable the states shall use data collected by the Corps of Engineers and/or other agencies to help fulfill the monitoring requirement, avoid duplication of effort, and ensure data consistency across programs.
- 14) The states shall submit annual monitoring reports to the Regional Administrator, NMFS, West Coast Region, on or before November 1. The annual reports shall include a summary of actions taken to reduce predation (non-lethal and lethal), the states' compliance with the terms and conditions of this authorization, and plans for future actions in compliance with this authorization.
- 15) The states shall periodically review observation data collected by the Corps of Engineers' Fisheries Field Unit to determine if additional individually identifiable California sea lions qualify as predatory (as defined in Term and Condition 1) and, if so, notify the Regional Administrator, NMFS, West Coast Region. NMFS may amend the Appendix, as described in Term and Condition 3.
- 16) This authorization may be modified, suspended, or revoked by NMFS at any time with 72 hours' notice to the states.
- 17) This authorization is valid until June 30, 2021, at which time it may be extended by NMFS for an additional period to be determined by NMFS.

NMFS requests that the states continue to cooperate to the maximum extent practicable in the pursuit of alternative technologies or methods to both reduce California sea lion predation on salmonids and the number of permanent removals of sea lions. Additionally, if resources are

I look forward to continuing to work cooperatively with the states on implementing measures needed to protect at-risk salmonids from sea lion predation at Bonneville Dam. Please contact Robert Anderson, NMFS, West Coast Region, Protected Resources Division, at 503-231-2226 or robert.c.anderson@noaa.gov, if you have any questions about this authorization.

Sincerely,



Barry A. Thom
Regional Administrator

Attachment (1):
Appendix 1

cc: Scott Rumsey, Deputy Regional Administrator, NMFS West Coast Region (WCR)
Chris Yates, Assistant Regional Administrator for Protected Resources, NMFS WCR
Rob Markle, Branch Chief for Protected Resources, NMFS WCR
Robert Anderson, Fishery Biologist, Protected Resources Division, NMFS WCR
Maggie Smith, Attorney, NOAA General Counsel Northwest Section
Administrative File: 151416WCR2016PR00037

APPENDIX 1 - 2016 MMPA Section 120 Authorization - Amendment 11, April 17, 2019
PREDATORY CALIFORNIA SEA LIONS AUTHORIZED FOR IMMEDIATE REMOVAL

<u>Serial Number</u>	<u>Appendix Date</u>	<u>Appendix Id.</u>	<u>aka</u>	<u>Brand Date</u>	<u>Removal Date</u>	<u>Disposition</u>
1	3/17/2008	C319	B239	9/18/2002	4/24/2008	Transfer to Sea World
2	3/17/2008	C265	B237	4/5/2002	3/10/2009	Killed by injection - health fail
3	3/17/2008	C309	B238	8/29/2002		
4	3/17/2008	C643	B242, B152	4/4/2007	3/17/2009	Killed by injection - health fail
5	3/17/2008	C404		3/11/2003		
6	3/17/2008	C192		3/12/2001		
7	3/17/2008	C699	B246	5/17/2007		
8	3/17/2008	C443		4/18/2003		
9	3/17/2008	C507	B145	3/31/2004	3/18/2009	Transfer to Shedd Aq.
10	3/17/2008	C322		9/23/2002		
11	3/17/2008	C440	B52, B189	4/16/2003		
12	3/17/2008	C417		3/27/2003	3/9/2010	Killed by injection - no facility
13	3/17/2008	C247		2/22/2002		
14	3/17/2008	C398		2/27/2003		
15	3/17/2008	C444		4/25/2003		
16	3/17/2008	C257		3/15/2002		
17	3/17/2008	C390		2/10/2003		
18	3/17/2008	C635	B240	3/5/2007	3/11/2009	Killed by injection - health fail
19	3/17/2008	C287		5/8/2002		
20	3/17/2008	C554		9/6/2005	4/1/2009	Killed by injection - health fail
21	3/17/2008	C379		1/31/2003		
22	3/17/2008	C640	B241	3/5/2007	4/28/2008	Transfer to Sea World
23	3/17/2008	C668	B244	4/25/2007	4/28/2008	Transfer to Sea World
24	3/17/2008	C360		12/10/2002		
25	3/17/2008	C455		5/1/2003		
26	3/17/2008	C622		10/12/2006		
27	3/17/2008	C578		8/28/2006	4/1/2009	Killed by injection - health fail
28	3/17/2008	C579	B216,B156	8/31/2006	4/1/2009	Killed by injection - health fail
29	3/17/2008	C644		4/4/2007		
30	3/17/2008	C586		9/1/2006	4/1/2009	Transfer to Gladys Porter Zoo
31	3/17/2008	C645	B243	4/4/2007	5/13/2009	Killed by injection - health fail
32	3/17/2008	C653		4/18/2007	3/3/2010	Killed by injection - no facility
33	3/17/2008	C669	B110, B245	4/25/2007	4/1/2009	Killed by injection - health fail
34	3/17/2008	C652		4/16/2007		

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35	3/17/2008	B130				
36	3/17/2008	B9				
37	3/17/2008	B108				
38	3/17/2008	B63				
39	3/17/2008	B66			4/28/2008	Transfer to Sea World
40	3/17/2008	B214				
41	3/17/2008	B136	C739	9/18/2007	4/24/2008	Transfer to Sea World
42	3/17/2008	B32				
43	3/17/2008	B46				
44	3/17/2008	B137				
45	3/17/2008	B2	B257			
46	3/17/2008	B47	B221			
47	3/17/2008	B208	C805	4/28/2008	3/30/2010	Killed by injection - no facility
48	3/17/2008	B194			3/9/2010	Killed by injection - no facility
49	3/17/2008	B220				
50	3/17/2008	B127	C657, B191	4/20/2007	4/1/2009	Transfer to Gladys Porter Zoo
51	3/17/2008	B198			4/28/2008	Died in anesthesia
52	3/17/2008	B88				
53	3/17/2008	B81				
54	3/17/2008	B204	B263			
55	3/17/2008	B40				
56	3/17/2008	B132	B90			
57	3/17/2008	B97				
58	3/17/2008	3341		1995		
59	3/17/2008	4140		1996		
60	4/25/2008	C606		9/11/2006	4/24/2008	Transfer to Sea World
61	4/25/2008	C700	B247	5/17/2007	3/18/2009	Transfer to Shedd Aq.
62	4/25/2008	C347		11/14/2002	5/4/2008	Died on the trap
63	4/25/2008	C441		4/18/2003		
64	12/4/2008	C147		4/1/2000		
65	12/4/2008	C674		4/30/2007	5/14/2009	Killed by injection - health fail
66	12/4/2008	C706		5/21/2007		
67	12/4/2008	C796		4/26/2008		
68	12/4/2008	C797		4/26/2008	9/9/2010	Killed by injection - no facility

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69	12/4/2008	B22	B205		5/18/2011	Killed by injection - no facility
70	12/4/2008	B100				
71	12/4/2008	B265	U19	9/11/2009		
72	12/4/2008	B267			3/9/2010	Killed by injection - no facility
73	12/4/2008	B31				
74	4/13/2009	B254				
75	4/13/2009	B258			3/9/2010	Killed by injection - no facility
76	4/13/2009	C926	B278,B169	4/1/2009	3/9/2010	Killed by injection - no facility
77	4/13/2009	B295				
78	4/13/2009	C858		8/28/2008	5/11/2009	Killed by injection - health fail
79	4/13/2009	C795	B281	4/26/2008		
80	5/19/2009	C927	B283	4/8/2009		
81	5/19/2009	C928	B288	4/16/2009	8/24/2009	Killed by injection - no facility
82	5/19/2009	B296				
83	5/19/2009	B285	B56,B272,U31	3/1/2010		
84	5/19/2009	B298				
85	5/19/2009	B297				
86	12/8/2009	C934	B300	5/14/2009	3/30/2010	Killed by injection - no facility
87	12/8/2009	B299				
88	3/16/2010	C697		5/14/2007	4/6/2010	Killed by injection - no facility
89	3/16/2010	C00	B305	3/9/2010	5/4/2010	Killed by injection - no facility
90	5/3/2010	C779		4/9/2008	4/12/2012	Killed by injection - no facility
91	5/3/2010	C881		9/25/2008		
92	5/3/2010	C930		5/12/2009	4/22/2014	Killed by injection - no facility
93	5/3/2010	C961		8/7/2009	4/25/2012	Killed by injection - no facility
94	5/3/2010	C971		8/10/2009		
95	5/3/2010	U18		9/11/2009	9/8/2010	Killed by injection - no facility
96	5/3/2010	B301				
97	5/3/2010	B307				
98	5/3/2010	B308				
99	5/18/2010	C667		4/24/2007	5/26/2010	Killed by injection - no facility
100	5/18/2010	C841		8/17/2008	5/26/2010	Killed by injection - no facility
101	5/18/2010	B317				
102	5/18/2010	B318				

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103	5/18/2010	B325				
104	5/18/2010	5490		1999		
105	9/7/2010	C847		8/22/2008		
106	9/7/2010	C931		5/12/2009		
107	9/7/2010	C963		8/7/2009		
108	9/7/2010	C01	B322	4/29/2010	4/3/2012	Killed by injection - no facility
109	9/7/2010	C04	B331	5/25/2010	4/25/2012	Killed by injection - no facility
110	9/7/2010	C05	B334	5/26/2010	4/30/2012	Killed by injection - no facility
111	9/7/2010	B302				
112	9/7/2010	B332				
113	9/7/2010	B333				
114	9/7/2010	B335				
115	9/7/2010	B338				
116	3/15/2012	C02		5/4/2010		
117	3/15/2012	C06		5/26/2010		
118	3/15/2012	C07		5/26/2010		
119	3/15/2012	C08	B340	5/26/2010	4/30/2013	Transfer to Queens Zoo
120	3/15/2012	C010	B355	3/31/2011		
121	3/15/2012	C011	B357	4/14/2011	4/25/2012	Transfer to Shedd Aq.
122	3/15/2012	C013	B356	4/19/2011	4/30/2012	Killed by injection - no facility
123	3/15/2012	C014		4/20/2011	10/25/2018	Killed MMPA § 109(h) operations
124	3/15/2012	C015	B303	4/21/2011	4/3/2012	Killed by injection - no facility
125	3/15/2012	C016		4/21/2011	4/9/2012	Killed by injection - no facility
126	3/15/2012	U26	B256	9/18/2009		
127	3/15/2012	U61	B315	5/14/2010	5/16/2012	Killed by injection - no facility
128	3/15/2012	U95		6/1/2010		
129	3/15/2012	B353				
130	3/15/2012	B343				
131	4/25/2012	C018	B358	5/20/2011	4/30/2013	Killed by injection - health fail
132	4/25/2012	C019	B367	4/9/2012	4/25/2012	Killed by injection - no facility
133	4/25/2012	U159	B327	5/18/2011	5/16/2012	Killed by injection - no facility
134	5/3/2012	C022	B368	4/24/2012	4/16/2013	Killed by injection - health fail
135	5/3/2012	C023	B354	4/24/2012	4/30/2013	Transfer to Queens Zoo
136	5/25/2012	C03	B324	5/18/2010	4/7/2016	Killed by injection - health fail

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137	5/25/2012	C020	B359	4/12/2012	4/22/2014	Killed by injection - no facility
138	5/25/2012	C021		4/24/2012	8/30/2012	Killed by injection - no facility
139	5/25/2012	C024	B369	5/16/2012		
140	5/16/2013	C012	B330	4/19/2011		
141	5/16/2013	C026		4/23/2013	4/8/2015	Killed by injection - no facility
142	5/16/2013	C027		4/30/2013	4/15/2014	Killed by injection - no facility
143	5/16/2013	C028	B379	4/30/2013	4/15/2014	Killed by injection - no facility
144	5/16/2013	C029		4/30/2013	4/22/2014	Killed by injection - no facility
145	5/16/2013	C032	B381	4/30/2013		
146	5/16/2013	C035	B371	5/7/2013	4/15/2014	Killed by injection - no facility
147	5/16/2013	U103		8/9/2010		
148	5/16/2013	U143		9/27/2010		
149	5/16/2013	U169		6/1/2011		
150	5/16/2013	U254		8/21/2012	4/15/2014	Killed by injection - no facility
151	5/16/2013	U262		8/23/2012	4/15/2014	Killed by injection - no facility
152	5/16/2013	B370				
153	5/16/2013	B384	C045	4/22/2014	5/19/2015	Killed by injection - no facility
154	5/16/2013	B385				
155	5/16/2013	B386				
156	4/8/2014	C034		5/7/2013		
157	4/8/2014	U84		5/17/2010	4/15/2014	Killed by injection - no facility
158	4/28/2014	C030		4/30/2013		
159	4/28/2014	C031	B382	4/30/2013	5/1/2014	Killed by injection - no facility
160	4/28/2014	C033	B390	5/7/2013	4/29/2014	Killed by injection - no facility
161	4/28/2014	C036	B407	4/9/2014	4/7/2015	Killed by injection - no facility
162	4/28/2014	C038	B391	4/16/2014		
163	4/28/2014	C041		4/16/2014	4/7/2015	Killed by injection - no facility
164	4/28/2014	U68		5/14/2010		
165	4/28/2014	U264		8/23/2012	5/1/2014	Killed by injection - no facility
166	4/28/2014	U267		8/30/2012	4/29/2014	Killed by injection - no facility
167	4/28/2014	U312		3/7/2013	4/29/2014	Killed by injection - no facility
168	4/28/2014	B409			5/1/2014	Killed by injection - no facility
169	5/12/2014	C039		4/16/2014	4/8/2015	Killed by injection - no facility
170	5/12/2014	C046	B414	4/23/2014	4/7/2015	Killed by injection - no facility

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171	5/12/2014	C047		4/24/2014	4/8/2015	Killed by injection - no facility
172	5/12/2014	C048	B410	4/24/2014		
173	5/12/2014	C050		4/24/2014	4/28/2015	Killed by injection - no facility
174	5/12/2014	C055	B412	5/1/2014	4/21/2015	Killed by injection - no facility
175	5/12/2014	C056	B413	5/6/2014	4/14/2015	Killed by injection - no facility
176	5/12/2014	B393				
177	5/12/2014	B411				
178	11/13/2014	C053	B396	4/29/2014	4/13/2016	Killed by injection - no facility
179	11/13/2014		B429			
180	11/13/2014		B423			
181	11/13/2014		B416 (C079)			
182	4/20/2015	C037	B408	4/15/2014	4/28/2015	Killed by injection - no facility
183	4/20/2015	C040		4/15/2014	4/21/2015	Killed by injection - no facility
184	4/20/2015	C052		4/29/2014	4/21/2015	Killed by injection - no facility
185	4/20/2015	C061		4/7/2015	4/22/2015	Killed by injection - no facility
186	4/20/2015	C065		4/8/2015		
187	4/20/2015	C066		4/8/2015	4/21/2015	Killed by injection - no facility
188	4/20/2015	C067		4/8/2015	5/20/2015	Killed by injection - no facility
189	5/11/2015	C042		4/22/2014		
190	5/11/2015	C057		4/7/2015		
191	5/11/2015	C058		4/7/2015	5/14/2015	Killed by injection - no facility
192	5/11/2015	C063		4/7/2015	5/13/2015	Transfer to Queens Zoo
193	5/11/2015	C068		4/8/2015	5/13/2015	Killed by injection - no facility
194	5/11/2015	C069		4/8/2015		
195	5/11/2015	C071		4/14/2015		
196	5/11/2015	C073		4/14/2015	4/19/2016	Killed by injection - no facility
197	5/11/2015	C074		4/14/2015	4/7/2016	Killed by injection - no facility
198	5/11/2015	C075		4/14/2015	4/11/2018	Killed by injection - no facility
199	5/11/2015	C076		4/15/2015		
200	5/11/2015	C078		4/15/2015	4/26/2016	Killed by injection - no facility
201	5/11/2015	C079	B416	4/15/2015	5/20/2015	Killed by injection - no facility
202	5/11/2015	C080		4/15/2015	4/19/2016	Killed by injection - no facility
203	5/11/2015	C081		4/15/2015		
204	5/11/2015	C082		4/15/2015	5/13/2015	Killed by injection - no facility

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205	5/11/2015	C084		4/15/2015	4/19/2016	Killed by injection - no facility
206	5/11/2015	C085		4/15/2015	5/14/2015	Killed by injection - no facility
207	5/11/2015	C087		4/21/2015		
208	5/11/2015	C089		4/21/2015	5/3/2016	Killed by injection - no facility
209	5/11/2015	C090		4/21/2015	5/20/2015	Killed by injection - no facility
210	5/11/2015	C091		4/21/2015	5/13/2015	Killed by injection - no facility
211	5/11/2015	C092		4/21/2015	5/19/2015	Killed by injection - no facility
212	5/11/2015	C093		4/21/2015	5/17/2016	Killed by injection - no facility
213	5/11/2015	C094		4/21/2015		
214	5/11/2015	U248		8/21/2012	4/7/2016	Killed by injection - no facility
215	5/11/2015	U457		3/10/2014	4/7/2016	Killed by injection - no facility
216	5/11/2015	U621		8/25/2014	4/12/2016	Killed by injection - no facility
217	5/11/2015	U646		8/27/2014		
218	5/11/2015	U673		9/3/2014	5/4/2016	Killed by injection - no facility
219	5/11/2015	1-01		4/22/2015	5/19/2015	Killed by injection - no facility
220	5/11/2015	1-08		4/22/2015	5/9/2017	Killed by injection - no facility
221	5/11/2015	1-10		4/22/2015	5/13/2015	Killed by injection - no facility
222	5/11/2015	1-11		4/22/2015	5/14/2015	Killed by injection - no facility
223	5/11/2015	1-12		4/22/2015		
224	5/11/2015	1-15		4/28/2015	5/13/2015	Killed by injection - no facility
225	5/11/2015	1-16		4/28/2015	5/19/2015	Killed by injection - no facility
226	5/11/2015	1-17		4/28/2015	4/6/2016	Killed by injection - no facility
227	5/11/2015	1-21		4/28/2015	5/19/2015	Killed by injection - no facility
228	5/11/2015	1-25		4/28/2015	4/6/2016	Killed by injection - no facility
229	5/11/2015	1-29		4/28/2015	5/13/2015	Transfer to Queens Zoo
230	5/26/2015	C062		4/7/2015	4/19/2016	Killed by injection - no facility
231	5/26/2015	C088		4/21/2015	5/4/2016	Killed by injection - no facility
232	5/26/2015	C095		4/21/2015	4/27/2016	Killed by injection - no facility
233	5/26/2015	C097		4/22/2015	5/5/2016	Killed by injection - no facility
234	5/26/2015	C098		4/22/2015		
235	5/26/2015	1-02		4/22/2015	5/18/2016	Killed by injection - no facility
236	5/26/2015	1-03		4/22/2015		
237	5/26/2015	1-04		4/22/2015	4/25/2017	Killed by injection - no facility
238	5/26/2015	1-06		4/22/2015		

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239	5/26/2015	1-13		4/28/2015	4/12/2016	Killed by injection - no facility
240	5/26/2015	1-18		4/28/2015	4/7/2016	Killed by injection - no facility
241	5/26/2015	1-19		4/28/2015	4/12/2016	Killed by injection - no facility
242	5/26/2015	1-20		4/28/2015		
243	5/26/2015	1-24		4/28/2015		
244	5/26/2015	1-32		4/29/2015	4/19/2016	Killed by injection - no facility
245	5/26/2015	1-39		5/14/2015	4/17/2018	Killed by injection - no facility
246	5/26/2015	1-40		5/14/2015	4/7/2016	Killed by injection - no facility
247	5/26/2015	1-52		5/14/2015	4/26/2016	Killed by injection - no facility
248	5/26/2015	U548		4/2/2014		
249	5/26/2015	U596		8/15/2014	4/19/2016	Killed by injection - no facility
250	3/29/2016	1-43		5/14/2015	5/10/2017	Killed by injection - no facility
251	3/29/2016	1-44		5/14/2015	4/20/2016	Killed by injection - no facility
252	3/29/2016	1-45		5/14/2015	4/20/2016	Killed by injection - no facility
253	3/29/2016	1-55		5/14/2015	4/12/2016	Killed by injection - no facility
254	3/29/2016	1-79		5/19/2015	4/6/2016	Killed by injection - no facility
255	3/29/2016	8193		2005	4/6/2016	Killed by injection - no facility
256	4/8/2016	U-638		8/26/2014	4/20/2016	Killed by injection - no facility
257	4/8/2016	U-733		2/24/2015	4/13/2016	Killed by injection - no facility
258	4/8/2016	1-54		5/14/2015	4/20/2016	Killed by injection - no facility
259	4/8/2016	1-85		5/20/2015	4/19/2016	Killed by injection - no facility
260	4/15/2016	1-09		4/22/2015	4/20/2016	Killed by injection - no facility
261	4/15/2016	1-23		4/28/2015		
262	4/15/2016	1-46		5/14/2015	4/27/2016	Killed by injection - no facility
263	4/15/2016	1-48		5/14/2015	4/26/2016	Killed by injection - no facility
264	4/15/2016	1-58		5/19/2015	4/20/2016	Killed by injection - no facility
265	4/15/2016	1-77		5/19/2015	4/26/2016	Killed by injection - no facility
266	4/15/2016	U425		8/28/2013		
267	4/15/2016	U605		8/19/2014	2/14/2018	Killed by injection - no facility
268	4/22/2016	1-37		5/14/2015		
269	4/22/2016	1-41		5/14/2015	4/27/2016	Killed by injection - no facility
270	4/22/2016	1-56		5/19/2015	4/27/2016	Killed by injection - no facility
271	4/22/2016	1-71		5/19/2015	4/27/2016	Killed by injection - no facility
272	4/22/2016	1-72		5/19/2015	4/19/2017	Killed by injection - no facility

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273	4/22/2016	1-81		5/19/2015	5/5/2016	Killed by injection - no facility
274	4/29/2016	C077		4/15/2015	5/4/2016	Killed by injection - no facility
275	4/29/2016	1-49		5/14/2015	5/5/2016	Killed by injection - no facility
276	4/29/2016	1-61		5/19/2015	5/11/2016	Killed by injection - no facility
277	4/29/2016	1-65		5/19/2015	5/4/2016	Killed by injection - no facility
278	4/29/2016	1-66		5/19/2015	5/3/2016	Killed by injection - no facility
279	4/29/2016	1-73		5/19/2015		
280	4/29/2016	1-83		5/20/2015	5/12/2016	Killed by injection - no facility
281	5/11/2016	C051		4/29/2014	5/11/2016	Killed by injection - no facility
282	5/11/2016	1-38		5/14/2015	5/18/2016	Killed by injection - no facility
283	5/11/2016	1-50		5/14/2015	5/11/2016	Killed by injection - no facility
284	5/11/2016	1-53		5/14/2015	5/11/2016	Killed by injection - no facility
285	5/11/2016	1-57		5/19/2015	5/8/2018	Killed by injection - no facility
286	5/11/2016	1-62		5/19/2015		
287	5/11/2016	1-60		5/19/2015	5/12/2016	Killed by injection - no facility
288	5/11/2016	1-87		5/20/2015	4/24/2018	Killed by injection - no facility
289	5/11/2016	U334		3/24/2013	4/25/2017	Killed by injection - no facility
290	5/11/2016	U744		2/25/2015	5/12/2016	Killed by injection - no facility
291	5/16/2016	1-31		4/29/2015	5/8/2018	Killed by injection - no facility
292	5/16/2016	1-80		5/19/2015	4/25/2017	Killed by injection - no facility
293	5/16/2016	1-93		5/3/2016	5/9/2017	Killed by injection - no facility
294	5/16/2016	1-97		5/3/2016		
295	5/16/2016	2-04		5/4/2016	5/17/2016	Killed by injection - no facility
296	5/16/2016	2-05		5/4/2016	5/4/2017	Killed by injection - no facility
297	5/16/2016	U625		8/25/2014	5/11/2017	Killed by injection - no facility
298	5/16/2016	V60		9/23/2010	5/17/2016	Killed by injection - no facility
299	5/23/2016	1-28		4/28/2015	5/2/2017	Killed by injection - no facility
300	5/23/2016	1-75		5/19/2015		
301	5/23/2016	1-88		5/3/2016	5/2/2017	Killed by injection - no facility
302	5/23/2016	1-95		5/3/2016	5/1/2018	Killed by injection - no facility
303	5/23/2016	2-00		5/3/2016		
304	5/23/2016	2-08		5/10/2016	5/2/2017	Killed by injection - no facility
305	5/23/2016	2-11		5/10/2016	4/19/2018	Killed by injection - no facility
306	5/23/2016	2-13		5/10/2016	4/25/2017	Killed by injection - no facility

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307	5/23/2016	2-14		5/10/2016		
308	5/23/2016	2-19		5/11/2016		
309	5/23/2016	2-21		5/12/2016	5/9/2017	Killed by injection - no facility
310	5/23/2016	2-22		5/12/2016		
311	5/23/2016	2-23		5/12/2016		
312	3/24/2017	2-01		5/3/2016	4/25/2017	Killed by injection - no facility
313	4/24/2017	1-33		4/29/2015	4/25/2017	Killed by injection - no facility
314	4/24/2017	1-42		5/14/2015		
315	4/24/2017	U497		3/31/2014	4/27/2017	Killed by injection - no facility
316	5/2/2017	1-98		5/3/2016	5/10/2017	Killed by injection - no facility
317	5/2/2017	2-09		5/10/2016	5/3/2017	Killed by injection - no facility
318	5/2/2017	2-39		4/20/2017	5/9/2017	Killed by injection - no facility
319	5/2/2017	X568		8/15/2016	5/2/2017	Killed by injection - no facility
320	5/8/2017	1-96		5/3/2016	4/24/2018	Killed by injection - no facility
321	5/15/2017	C086		4/21/2015	4/24/2018	Killed by injection - no facility
322	5/8/2017	2-06		5/5/2016	5/11/2017	Killed by injection - no facility
323	5/8/2017	2-12		5/10/2016	4/18/2018	Killed by injection - no facility
324	5/15/2017	1-86		5/20/2015	5/17/2017	Killed by injection - no facility
325	5/15/2017	2-38		4/19/2017	4/24/2018	Killed by injection - no facility
326	5/15/2017	2-41		4/26/2017	4/11/2018	Killed by injection - no facility
327	5/15/2017	2-42		4/27/2017	5/16/2017	Killed by injection - no facility
328	5/15/2017	2-45		5/3/2017	4/10/2018	Killed by injection - no facility
329	5/22/2017	2-20		5/12/2016	4/25/2018	Killed by injection - no facility
330	5/22/2017	2-24		5/17/2016	5/3/2018	Killed by injection - no facility
331	5/22/2017	2-29		5/17/2016	4/11/2018	Killed by injection - no facility
332	5/22/2017	2-31		5/18/2016		
333	5/22/2017	2-34		5/18/2016		
334	5/22/2017	2-43		5/2/2017	5/1/2018	Killed by injection - no facility
335	5/22/2017	2-51		5/11/2017		
336	5/22/2017	2-52		5/11/2017	5/3/2018	Killed by injection - no facility
337	3/23/2018	1-91		5/3/2016	4/24/2018	Killed by injection - no facility
338	3/23/2018	2-17		5/11/2016	4/17/2018	Killed by injection - no facility
339	3/23/2018	2-35		5/19/2016	4/19/2018	Killed by injection - no facility
340	3/23/2018	2-40		4/25/2017		

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341	3/23/2018	2-49		5/10/2017	4/11/2018	Killed by injection - no facility
342	3/23/2018	U146		9/29/2010	4/18/2018	Killed by injection - no facility
343	3/23/2018	U655		8/27/2014		
344	5/4/2018	2-37		5/23/2016	5/9/2018	Killed by injection - no facility
345	5/7/2018	2-18		5/11/2016		
346	5/7/2018	2-26		5/17/2016		
347	5/7/2018	2-33		5/18/2016	5/8/2018	Killed by injection - no facility
348	5/7/2018	2-47		5/9/2017	5/8/2018	Killed by injection - no facility
349	5/7/2018	1-51		5/14/2015	5/8/2018	Killed by injection - no facility
350	5/14/2018	X886		4/18/2017	5/15/2018	Killed by injection - no facility
351	5/14/2018	1-70		5/19/2015		
352	4/17/2019	1-05		4/22/2015		
353	4/17/2019	1-30		4/29/2015		
354	4/17/2019	1-36		5/14/2015		
355	4/17/2019	1-74		5/19/2015		
356	4/17/2019	2-54		5/18/2017		
357	4/17/2019	2-60		5/15/2018		
358	4/17/2019	2-63		5/22/2018		
359	4/17/2019	C-044		4/22/2014		
360	4/17/2019	U-873		4/22/2015		
361	4/17/2019	1-07		4/22/2015		
362	4/17/2019	1-59		5/19/2015		
363	4/17/2019	1-76		5/19/2015		
364	4/17/2019	1-82		5/19/2015		
365	4/17/2019	1-84		5/20/2015		
366	4/17/2019	1-92		5/3/2016		
367	4/17/2019	1-99		5/3/2016		
368	4/17/2019	2-02		5/4/2016		
369	4/17/2019	2-07		5/10/2016		
370	4/17/2019	2-15		5/10/2016		
371	4/17/2019	2-25		5/17/2016		
372	4/17/2019	2-27		5/17/2016		
373	4/17/2019	2-28		5/17/2016		
374	4/17/2019	2-30		5/18/2016		

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375	4/17/2019	2-36		5/23/2016		
376	4/17/2019	2-46		5/4/2017		
377	4/17/2019	2-48		5/10/2017		
378	4/17/2019	C-096		4/22/2015		
379	4/17/2019	U-33		3/5/2010		
380	4/17/2019	X-125		9/22/2015		

NOTES:

Appendix 1, "Predatory California Sea Lions Authorized For Immediate Removal" was originally compiled by the National Marine Fisheries Service as informed by R. Stansell, Appendix D, Table 3.3 of the Final Report and Recommendations of the Pinniped-Fishery Interaction Task Force: Columbia River (November 5, 2007). The Appendix was transmitted to the states of Oregon, Washington, and Idaho in a Letter of Authorization issued March 17, 2008. The Appendix has been periodically amended to accurately report those individual California sea lions that meet the description contained in the Letter of Authorization and thus are authorized for removal.

Serial Number = A tally of the sea lions authorized for removal (N-1)(see note 2).

Appendix Date = The issuance date of the Appendix 1 list that first included this animal.

Appendix Id. = The unique alpha-numeric brand number or identification code assigned to this animal when first listed.

aka = Other known identification codes or brands applicable to this animal.

Brand Date = The date a unique alpha-numeric brand was applied to this animal.

Removal Date = The date the animal was permanently removed (killed, transferred to captivity, found dead).

Note (1): The original Appendix 1 list issued on March 17, 2008 included two sea lions (C579 and B216). A review of identification data, following the removal of C579 on April 1, 2009 revealed that C579 and B216 were the same animal and therefore B216 has been moved to the "aka" adjacent to C579 in order to maintain a correct tally of animals authorized for removal. Similarly, additional review of observation records showed that sea lions B47 and B221 from the original list are the same animal. Accordingly, B221 has been moved to the "aka" adjacent to B47 to maintain a correct tally of animals authorized for removal. The Branding Date for sea lion C05 has been corrected to May 26, 2010.

Note (2): On June 14, 2016, the Corps determined, based on a review of identification data, that sea lion B416 and C079 were the same animal, and therefore B416 has been moved to the "aka" column adjacent to C079. However, in order to maintain serial number and Appendix ID correlation among sea lions authorized for removal and Appendix 1 Amendments since 2008, serial number (181) is deleted (strikethrough).

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Note (3): On June 10, 2016, ODFW submitted a memorandum to NMFS clarifying a discrepancy regarding the removal of sea lion 1-68 (1-60).

Based on a thorough examination of the field observation data from Bonneville Dam and the photographic evidence, ODFW determined that sea lion 1-68, which was added to Appendix 1 on May 11, 2016 (request date was May 5, 2016) was in fact sea lion 1-60. Based on the information provided to NMFS in the States' memorandum, NMFS concluded that all of the information supports the conclusion that the animal that was removed sea lion (1-60) was the animal intended to be removed, and that the animal removed was an eligible animal having met the criteria in the States' Letter of Authorization. Therefore, the Appendix ID for this animal has been changed from 1-68 to 1-60.

Note (4): Appendix 1, Amendment 18, issued on May 26, 2016, had a Branding Date error for sea lion V60, Serial Number 298.

The date in Amendment was 6/22/1905. The Branding Date provided by the State in their May 13, 2016, request was 2000 (no month or day was provided). In tracing the error, it was determined that the error was a product of the coding in the spreadsheet, which has a specific default setting for D/M/Y and if not entered as such, self-generates an off-date to match the D/M/Y format. In this case, when the year 2000 was entered into the spreadsheet it generated a date of 6/22/1905.

To bypass the default date setting, and enter a year-only date, the (') character must be manually entered prior to entering the year-only date for the cell to accept an alternate date. The Branding Date for sea lion V60 has been corrected to 2000. Subsequent to this correction, ODFW informed NMFS on June 6, 2016, that their May 13, 2016, request contained an error regarding the branding date for sea lion V60.

The Branding Date for sea lion V60 was 9/23/2010, not 2000 as previously noted. The Branding date for sea lion V60 has been corrected to 9/23/2010.