UNITED STATES DEPARTMENT OF COMMERCE National Oceanic Atmospheric Administration

National Marine Fisheries Service P.O. Box 21668 Juneau, Alaska 99802-1668

November 5, 2018

Simon Kinneen, Chairman North Pacific Fishery Management Council 605 West 4th Avenue, Suite 306 Anchorage, Alaska 99501

Re: Review of an Exempted Fishing Permit Application From The Aleut Corporation to Test Alternative Methods for Limiting Bycatch of Pacific Ocean Perch (POP) in the Aleutian Islands Pollock Fishery.

Dear Chairman Kinneen:

On September 21, 2018, NMFS received an application from Dave Fraser and Kay Larson-Blair on behalf of the Aleut Corporation for an exempted fishing permit (EFP). We are providing the application to the U.S. Coast Guard, State of Alaska, and the North Pacific Fishery Management Council (Council), as required by 50 CFR 600.745(b)(3)(i) and 50 CFR 679.6(c)(2). This EFP would allow the Aleut Corporation to test methods to minimize Pacific ocean perch (POP) bycatch while working to fully prosecute their Aleutian Islands (AI) pollock allocation. The objective of the study is to achieve the goal of the American Fisheries Act in developing an economically viable AI pollock fishery under current POP abundance levels. This could potentially provide an opportunity for the Aleut Corporation to develop an economically viable AI pollock fishery while also improving safety at sea and reducing the overall POP bycatch mortality. Issuance of EFPs is authorized by the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Islands (BSAI) Management Area and its implementing regulations at 50 CFR 679.6, Exempted Fisheries.

On October 16, 2018, the Alaska Fisheries Science Center found the EFP application constitutes a valid fishing experiment appropriate for further consideration, if some specific comments from the Fisheries Monitoring and Analysis Division are addressed in the permit. Testing under the EFP would occur within the area north of Atka Island in area 541 and the Kanaga Sound portion of area 542 east of 170 west longitude of the AI subarea of the Bering Sea AI fishery management area during the AI pollock fishery's winter "A" season in 2019 and 2020.

To conduct this experiment, exemptions would be necessary from maximum retainable amount (MRA) requirements at § 679.20(e)(ii). American Fisheries Act (AFA) vessels and non-AFA vessels less than 60 feet length overall fishing for AI pollock under the Aleut Corporation's permit would be exempted from the 5 percent MRA limit for POP in the pollock fishery. This exemption would apply from the date the 2019 final harvest specifications are effective until April 15 of each year this EFP is valid.



An additional exemption from § 679.21(b)(1)(ii)(B)(4) would apply. This regulation applies to halibut prohibited species catch (PSC) bycatch management and PSC limits for rockfish trawl fisheries in the BSAI. Therefore, vessels fishing under this EFP would be exempt from the halibut PSC limit applicable to directed fishing for POP in the BSAI.

After reviewing the proposed EFP in relation to NOAA Administrative Order (NAO) 216-6A, NMFS has determined that the proposed EFP research would not have a significant effect on the human environment. Specifically, the proposed action falls into the category of actions subject to categorical exclusion identified in Appendix E of NOAA's Companion Manual for NAO 216-6A, B12, for the issuance of EFPs.

We are initiating consultation with the Council by forwarding the application, as required by 50 CFR 679.6(c)(2). We understand that you have scheduled Council review of the proposed project at the Council's December 2018 meeting. Please notify Dave Fraser and Kay Larson-Blair, representatives of the Aleut Corporation, of your receipt of the application and invite them to appear before the Council during the December meeting in support of the application. We will publish a notice of receipt of the application in the *Federal Register* with a brief description of the proposal.

Sincerely,

James W. Balsiger, Ph.D. Administrator, Alaska Region

Enclosures:
EFP Application
AFSC memorandum of approval of the experimental design
Categorical Exclusion supporting this proposal

Exempted Fishing Permit Application Aleutian Island Pollock Fishery

1. Application Date.

September 21, 2018

2. Applicant.

The Aleut Corporation Attention: Kay Larson-Blair 4000 Old Seward Hwy, Suite 300 Anchorage Alaska 99513 907-561-4300

3. Purpose and Goal

3.1 Background

Prior to passage of the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA), the Bering Sea/Aleutian Island (BSAI) walleye pollock (*Gadus chalcogrammus*; hereafter pollock) fishery was prosecuted primarily by foreign fleets (Japan, USSR, and Korea). The MFCMA established the 200-mile Exclusive Economic Zone and gave management control of the BSAI pollock fishery to the newly created the North Pacific Fishery Management Council (NPFMC). A BSAI Groundfish Fishery Management Plan (FMP) was developed by the NPFMC to provide a framework for developing specific regulations for the Aleutian Islands (AI) pollock fishery (NPFMC 2005). Joint ventures (American catcher vessels delivering fish to foreign at-sea processors) operated during the 1980s, but were phased out by the domestic fleet by 1991. During the 1990's AI pollock harvests ranged from 23,822 t in 1998 to 99,604 t in 1991.

In 1990 Stellar sea lions (*Eumetopias jubatus*) were listed as "threatened" under the Endangered Species Act (ESA). Directed Pollock fishing in the Aleutian Islands was closed beginning in 1999, in part due to concerns about Steller sea lions. In 2001 the NMFS Office of Protected Resources and the Alaska Regional Office of NMFS worked through the Reasonable and Prudent Alternative (RPA) committee and the NPFMC to develop conservation measures which focused on the removal of spatial overlap between Stellar sea lions and the fisheries in order to relax some of the more financially disruptive aspects of the RPA from the BSAI FMP biological opinion (such as critical habitat catch limits). However, no allowance was made for pollock fishing inside critical habitat in the Aleutian Islands.

Under Steller sea lion mitigation measure adopted by the NPFMC in 2014, beginning in 2015 NMFS reopened Al pollock fishing restricted to areas inside portions of critical habitat generally as outside 10 miles from rookeries and 3 miles from haulouts east of 178 degrees longitude in area 542 and in area 541 (as listed in Table 4 to Part 679 Steller Sea Lion Protection Areas Pollock Fisheries Restrictions).

Section 803(a-d) of PL 108-199 allocated the directed AI pollock fishery total allowable catch (TAC) to the Aleut Corporation. The allocation was implemented under Amendment 82 to the BSAI FMP by the NPFMC, and became effective in 2005. Until the regulations implementing the Aleut Corporation allocation were in effect in 2005, NPFMC recommended AI pollock TACs that were insufficient to support a directed fishery. Beginning in 2005 the AI pollock TAC was set at 19,000 metric tons annually, however total directed AI pollock harvests since 2005 have been less than 2,000 t.

In 2006 through 2008 the Aleutian Islands cooperative acoustic study (AICASS) was implemented to explore the development of a spatially and temporally explicit fishery management system in the Aleutian Islands based on cooperative acoustic surveys to limit fishery impacts on Steller sea lions. Fishery biologists with the Alaska Fisheries Science Center along with the Aleut Corporation, fish processors, and fishers explored the feasibility of conducting small-scale cooperative acoustic groundfish surveys in the winter. The surveys were designed by fishery biologists, but conducted by fishers on board fishing vessels. The surveys were meant to provide spatially and temporally relevant estimates of groundfish biomass that could be used to set acceptable biological catch levels inside Steller sea lion critical habitat. The technical feasibility of conducting scientific grade surveys aboard fishing vessels in the Aleutian Islands was successfully demonstrated. However, the technical feasibility of conducting the surveys and adapting the catch accounting system to accommodate the proposed management system have proven to be simpler than the far more complex economic and social issues surrounding the fishery.

One of the issues in pursuing an AI pollock fishery that has been difficult to overcome is the resurgence of Pacific ocean perch (Sebastes alutus; hereafter POP) in the Aleutian Islands and lack of flexibility in the current management system to adapt to this large increase. Currently the AI pollock fishery is limited to a 5% maximum retention amount (MRA) limit per landing developed based on catch rates encountered during earlier fisheries. However, POP biomass in the Aleutian Islands has more than tripled from 1981 to 2011 from 253,000 t to 845,000 t and has remained at above 750,000 t through the last full assessment in 2016 (Spencer et al. 2016). For the same time period AI pollock biomass has decreased more than 1/4 fold from 847,000 t in 1981 to 191,000 t in 2011 and averaging about 200,000 t since (Barbeaux et al. 2017).

In the 1990's when the AI POP population was ~60% of what it is currently the proportion of POP in the AI pollock fishery catch was consistently < 1% (see Table 1). In contrast, the proportion of POP in the catch during the AICASS pollock fishery was highly variable with a low of 7% in 2006 to a high of 21% in 2008. The acoustic surveys conducted during the AICASS show that there is now a high degree of overlap between pollock and POP populations. There currently is no proven means of discerning the proportion of POP and pollock in an aggregation without first fishing on the aggregation. The limited amount of fishing under the Aleut Corporation's allocation since 2008 with vessels actively attempting to avoid POP bycatch has shown the same overlap and variability observed during the AICASS surveys with rates often exceeding 5% (AKFIN 2018).

The catcher vessels that are allowed to deliver pollock in the Al are small with limited deck space. It is impractical to sort and discard POP from pollock on these vessels when rates in excess of the 5% MRA are encountered. To the extent a catcher vessel does attempt to sort to a 5% standard they are at risk of violation of the regulations if they misjudge. In addition this fishery is pursued primarily in February through April when weather conditions in the Aleutian Islands are often hazardous with rapidly developing storms and high winds being commonplace. The only practical means of sorting POP from a large mixed trawl catch entails dumping a codend on deck in sections as the remainder of the codend hangs off the stern. Crew then manually sort the POP from the catch as the pollock are allowed to flow into the holding tanks. During this time period vessel maneuverability is substantially hindered and crew are exposed to the elements and a shifting codend on deck for extended periods of time. During good weather conditions the 5% MRA limit is at best a serious economic burden, however during the winter in the Aleutian Island the limit adds substantial risk to the vessel and crew.

The MRA limit is likely not a good tool for reducing POP fishing mortality if an AI pollock fishery is to be developed. An MRA limit simply controls the proportion of bycatch landed, it does not necessarily reduce overall bycatch fishing mortality. Discard mortality rates of rockfish from trawls is high (approaching 100%; Parker et al. 2000) and POP in the AI pollock fishery have proven to be unavoidable in the recent years where POP abundance is high and where POP aggregations are co-located with pollock aggregations.

The current AI pollock fishing regulations which limit POP to a 5% MRA in effect makes pursuing a fishery on AI pollock both economically unviable and substantially more dangerous. In addition due to the high discard mortality rate of rockfish a bycatch delivery rate reduction approach while allowing discards at sea does not provide a reasonable means of reducing bycaught POP fishing mortality if an AI pollock fishery develops.

One potential regulatory means to address this burden to harvesting AI pollock while decreasing overall POP bycatch fishing mortality would be to manage to a quantity of POP rather than an instantaneous rate in what would be in effect a mixed target fishery. Experience with constraining POP caps in the west coast whiting fishery cooperatives has shown that setting a cap and allowing self-management of the rates in a risk pool maximizes incentives to optimize the use of the cap by reducing POP bycatch to harvest as much of the whiting allocation as possible (Sylvia, Mann, and Pugmire 2008). If the acceptable bycatch rate of AI POP in the AI pollock fishery was 5% (the MRA), this would require an additional incidental catch amount (ICA) of roughly 500 t from the AI POP TAC of 26,381 t (2%) to support a 2019 A season AI pollock directed fishing allowance (DFA) of 10,361 t.

Managing this fishery as a mixed fishery with its own POP allocation would achieve several goals, 1) allow for the exploitation of the AI pollock resource by the Aleut corporation as Congress intended when the allocation was enacted in the 1998 American Fisheries Act, 2) improve safety at sea during this fishery in accordance with Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA) National Standard 10, and 3) reduce overall POP bycatch mortality in the AI pollock fishery in accordance with MSFCMA National Standard 9.

However there are currently several regulatory obstacles to managing the AI pollock fishery as a mixed target fishery. Legislation mandates that Aleut Corporations pollock allocation be harvested by either vessels designated as BSAI pollock fishing vessels under the American Fisheries Act (AFA) or vessels <60°. There is a targeted POP fishery in the AI, however AFA vessels are subject to sideboards which prevent them from directed fishing for POP. The POP fishery for the non-Amendment 80 (including < 60° CVs) doesn't open for directed fishing until April 15th to limit halibut bycatch in the bottom trawl fishery. All of these issues could be addressed through an Exempted Fishing Permit (EFP).

3.2 Proposed Exemption

Under this EFP, exemptions from the following regulations would apply:

50 CFR 679.20(e)(ii): This regulation applies to the maximum retainable amount (MRA). AFA vessels and catcher vessels < 60' fishing AI pollock under the Aleut Corporation's permit would be exempted from the 5% MRA limit for POP in the pollock fishery. The exemption would apply from the date the 2019 final harvest specifications are effective until April 15th of the year or years this EFP is valid.

50 CFR 679.21(b)(1)(ii)(B)(4): This regulation applies to prohibited species bycatch management and PSC limits for rockfish trawl fisheries in the BSAI. Vessels fishing under this EFP would be exempt from the halibut PSC limit applicable to directed fishing for POP in the BSAI.

3.3 Purpose and Goals

3.3.1 EFP Purpose:

Current regulatory constraints limit the ability of the Aleut Corporation to achieve the objective of the AFA in developing an economically viable AI pollock fishery and under current POP abundance levels unduly put fishers at risk where the 5% MRA cannot be attained. This EFP will test an alternative management framework for limiting POP bycatch in the AI pollock fishery which could potentially provide an opportunity for the Aleut Corporation to develop an economically viable AI pollock fishery while improving safety at sea and reducing the potential overall POP bycatch mortality.

3.3.2 EFP Goals:

A. To the level practical, fully prosecute the Aleut Corporation's AI pollock allocation as intended by the 2004 Section 803(a-d) of PL 108-199 while testing methods to minimize POP catch.

- B. To limit POP bycatch mortality and waste in a fully prosecuted AI pollock fishery through full retention and accounting of POP bycatch and limiting of overall POP catch to 500 mt for this fishery by AFA catcher vessels and Non-AFA catcher vessels <60'.
- C. To improve safety at sea by reducing the amount of time necessary to stow catch by eliminating the need to sort POP from the catch on deck.
- D. To evaluate timing and location of POP bycatch during the EFP AI pollock fishery to determine means of reducing bycatch rates.

4. Technical Details.

4.1 Amounts of each species

No more than 500 mt of POP will be harvested under this EFP by AFA catcher vessels and Non-AFA catcher vessels <60°. The 500 mt POP cap would be allocated between NPFMC Areas 541 (450 tons) and 542 (50 tons) A maximum of 10,361 mt of walleye Pollock will be harvested under this EFP. Fishing for pollock under this EFP shall cease if the pollock or POP limits are attained.

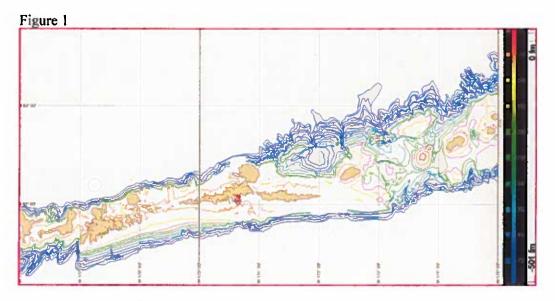
Any salmon bycatch will be accounted against the Prohibited Species Catch cap for the Aleutian Island Pollock fishery. Any incidental catch of non-Pollock species will be accounted against the Optimum Yield. All catch will be retained for weighing and secondary sampling at the processing plant.

4.2(a) Timing

The POP MRA exemption under this EFP will be in effect from the time the 2019 harvest specifications are final through April 15th of the year or years this EFP is valid. It is anticipated that most of the fishing will be conducted in March.

4.2(b) Area

The site is defined as the area between 170° 00' and 178° 00.0' west longitude (Fig. 1). The fishing in this area is located primarily within the area north of Atka Island in area 541 and the Kanaga Sound portion of 542 east of 170 west longitude of the Aleutian Islands subarea of the Bering Sea Aleutian Island fishery management area. No fishing will be conducted within any Steller sea lion RPA site otherwise closed to pollock fishing.



Past fishing effort within this region was concentrated between the 100 fm and 500 fm isobaths. During the 1990s, Kanaga area catches dominated the District 542 catches and accounted for as much as 72% of the entire AI catches (Table 1).

Table 1. Historic pollock catch data for the Aleutian area.

			541			
			District	542	543	Aleutian
	Observed		Annual	District	District	Island
С	atch (mt)	% Pollock	Catch	Annual	Annual	Annual
Year	*	**	(mt)C	atch (mt) C	atch (mt) C	Catch (mt)
1993	2,493	99.49%	54,512	2,536	83	57,131
1995	35,935	99.58%	28,109	36,714	102	64,925
1996	20,884	99.52%	9,226	19,574	216	29,016
1997	14,868	99.58%	8,110	16,799	1,031	25,940
1998	3,114	99.28%	1,837	3,858	18,127	23,822

- This is the observed official total catch for Jan-Apr (includes bycatch).
- ** This is the percent Pollock in the observed species composition samples for the area.

4.3 Vessel and gear

The vessels will be selected from trawl catcher vessels on the NMFS approved list of vessels eligible to fish the Aleut Corporation Pollock allocation. It is anticipated that three AFA catcher vessels and two non-AFA <60' vessel will be selected to operate under this EFP in 2019. The vessels will be equipped for pelagic Pollock fishing. Preference will be given to vessels equipped with a Simrad ES60 or ES70 echosounder with a 38kHz split beam transducer. The AFA vessels will have accommodations for an observer, and will provide a sheltered work area for the observer to perform sampling. Non-AFA vessels <60' must have an observer.

Fishing gear will be pelagic Pollock trawls, appropriate to the vessel's horsepower.

4.4 Experimental Design

Prior to the fishery for each vessel the fishing captain will record the tools they have available for discerning POP aggregations (e.g. echosounders, sonar, net sounders, etc.). During the fishery fishing captains will be asked to report weather and tidal conditions for each haul. Prior to setting and retrieval of each haul the fishing captains will record their prediction of the proportion of POP in each haul, after the haul is retrieved the captains will record as close as possible the realized proportion of POP in each tow, and finally they will record notes on why their predictions matched or did not match the realized proportion. The predictions and testing of predictions will provide a means to test the captains' skill at identifying POP in situ with their available tools. We will then be able to identify which captains are consistently successful and evaluate the means to their success. For vessels equipped with ES-60 or ES-70 echo-sounders acoustic data will be collected during fishing operations. The acoustic data will be reviewed at a post-season meeting with the fishing captains along with their fishing notes to help develop possible POP identification and avoidance measures. (See Attachment B)

All catch information (observer and delivery data) will be transmitted to the Alaska Regional office within 8 hours of the completion of the delivery following standard catch accounting protocols. The fishery will be halted by the EFP Coordinator when the 500 mt POP bycatch allowance or the 10,361 mt DFA for Al pollock is projected to be reached.

A data form has been developed (Attachment A) which will allow a more formal analysis of the Al pollock fishery POP bycatch. The form will be filled out by the vessel captains. This data collection will allow fishing captains to test their own hypothesis on how to reduce POP bycatch in the Al pollock fishery without legal or safety ramifications and communicate their efforts directly to managers and other fisheries while also allowing for a more rigorous analysis of these hypothesis post-season. Example hypotheses already posited include:

1) Bycatch of POP is increased at night due to mixing of POP and Pollock as POP migrate vertically off the bottom at night and pollock aggregations expand to form the night-time "band" of fish.

- 2) Higher current periods (strong ebb and flood tides) increase POP bycatch in the pollock fishery as POP and pollock may seek refuge in similar areas (troughs and valleys) to conserve energy.
- 3) POP bycatch in the pollock fishery can be reduced by fishing at the top edge of the aggregation, or band at night, as the two species may separate vertically in the water column.

The fishery in both the > 60' and < 60' sectors will be monitored at sea by observers within their official duties. Observers will collect species composition samples and length composition samples on POP and pollock on all hauls at sea as per their normal duties. All catch will be retained and sorted and weighed by species at the plant according to the plant's CMCP.

Metric for evaluating success

Ultimately the full harvest of the A season AI pollock DFA limit within the POP constraints while maintaining the safety of the fishery participants will be the measure of success for the industry participants. In order for this to happen while working to reduce POP bycatch fishing mortality, the full participation and documentation of fishing effort by all fishing captains during this fishery will be needed. Through this documentation effort and post-season analysis fishing guidelines will be developed and shared among the fishery participants which will enable the fleet to reduce POP bycatch fishing mortality.

Milestones for 2019-2020:

January – April 2019: Participation of selected vessels in the AI pollock fishery

March – April 2019: Post-season debriefing of fishing captains

May – July 2019: Collation and statistical analysis of fishing captain and observer collected data.

August - November 2019: Publication of preliminary fishing guidelines for 2020 AI pollock fishery

November 2019: Submission of interim report

January – March 2020: participation of vessels in the Al pollock fishery

March – April 2020: Post-season debriefing of fishing captains with their evaluation of fishing guidelines

May – July 2020: Collation and statistical analysis of fishing captain and observer collected data with respect to fishing guidelines and any new additional guidelines suggested by fishing captains in the 2020 season

August – November 2020: Publication of fishing guidelines for 2021 AI pollock fishery November 2020: Submission of final report

4.5 Public Release of Information

All data from this experimental fishery will be made available to the public, including the catch and position data.

5. Observers.

An observer must be on the vessel throughout the experimental fishery in accordance with normal observer program protocol. One hundred percent observer coverage would be required of all vessels participating in the EFP together with full retention of all catch. A hard cap applied to AFA catcher vessels and catcher vessels <60' of 500 mt of POP would apply to vessels fishing under the EFP.

6. Principal and coordinating parties.

The principal and coordinating parties are the following:

The Aleut Corporation - Kay Larson-Blair - lead coordinator

Catcher vessels - manager and captain (to be determined)

NMFS AFSC Scientific Staff – Steve Barbeaux

Adak Community Development Corporation – dave fraser

The role of the coordinator is to delegate the listed tasks and make sure that the designated individual is following through, including:

- Monitoring compliance with the terms of the EFP.
- Arranging for the selection of vessels.
- Coordinating with vessels to make sure they understand and comply with the terms of the permi.t
- Coordinating with the fish plant to monitor catch amounts to stay within the POP and Pollock limits.
- Coordinating with the fish plant for sea sampler data collection.
- Arranging for the release of observer data to the analyst.
- Arranging for the post season debriefing of captains, and the collection and compiling of captains' logs, and sea sampler data.
- Arranging for the statistical analysis of the data.
- Making sure the schedule of "milestones" is achieved.
- Submission of interim and final reports.

7. Vessel Information.

The following vessel information will be determined once the vessels are selected.

Vessel Name.

Vessel Owner.

Vessel Skipper.

USCG Documentation Number.

Home Port.

Vessel Length.

Net Tonnage.

Gross Tonnage.

8. Applicant Signature.

Kay Larson-Blair, Aleut Corporation

9. Additional Information.

See Attachments A, B, & C.

10. References.

AICASS papers:

Barbeaux, S.J., Fritz, L. and Logerwell, E., 2018. Exploring local fishery management through cooperative acoustic surveys in the Aleutian Islands. Marine Policy, 90, pp.68-77.

Barbeaux, D. Fraser, L. W. Fritz, and E. A. Logerwell "Cooperative Multispecies Acoustic Surveys in the Aleutian Islands" S. J. - NOAA Technical Memorandum NMFS-AFSC-347

Barbeaux, S.J. and Fraser, D. 2009. "Aleutian Islands cooperative acoustic survey study for 2006" NOAA Technical Memorandum NMFS-AFSC-198

Elizabeth A. Logerwell, Steven J. Barbeaux and Lowell W. Fritz "A cooperative pollock acoustic biomass survey for management of fisheries interactions with Steller sealions in the Aleutian Islands" - NPRB Project 730 Final Report

Other Papers.

- Coombs, R.F. and P.L. Cordue. 1995. Evolution of a stock assessment tool: acoustic surveys of spawning hoki (*Macruronus novaezelandiae*) off the west coast of South Island, New Zealand, 1985-91. New Zealand Journal of Marine and Freshwater Research, 1995: Vol. 29: 175-194.
- Dorn, M.W., W.A. Karp, V.G. Wespestad, J. Ianelli, and T.J. Quinn II. 2002. Using fishing vessels to collect acoustic data for scientific purposes: preliminary results from midwater trawlers in the eastern Bering Sea walleye Pollock fishery.
- Foote, K.G., H.P. Knudsen, G. Vestness, D.N. MacLennan, and E.J. Simmonds. 1987. Calibration of acoustic instruments for fish-density estimation: a practical guide. ICES Cooperative Research Report No. 144, 57 pp.
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- Nishimura, A., T. Yanagimoto, and Y. Takao. 2002. Cruise results of the winter 2002 Bering Sea Pollock survey (Kaiyo Maru). Document for the 2002 STC meeting, Central Bering Sea Pollock Convention, September 2002.
- O'Driscoll, R.L. and G.J. Macaulay. 2005. Using fish-processing time to carry out acoustic surveys from commercial vessels. ICES Journal of Marine Sciences, 62: 295-305.
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- Stanley, R.D., R. Kieser, K. Cooke, A.M. Surry, and B. Mose. 2000. Estimation of a widow rockfish (*Sebastes entomelas*) shoal off British Columbia, Canada as a joint exercise between stock-assessment staff and the fishing industry. ICES Journal of Marine Science, 57: 1035-1049.
- Stanton, T.K. 1982. Effects of transducer motion on echo-integration techniques. Journal of the Acoustical Society of America, 72: 947-949.
- Sylvia, G., Mann, H.M. and Pugmire, C., 2008. Achievements of the Pacific whiting conservation cooperative: rational collaboration in a sea of irrational competition. FAO fisheries technical paper, 504, p.425.

The Aleut Corporation
Attachment A - Captain's Log

Observer Cruise Number_ Vessel

Notes (see back for	more space)						
	On Deck						
%POP	Haul- back						
	Befor e Set						ű
Max	Current Speed (kts)						
Tidal State	(Circle period when fished)	Libb 1 Plond 1 Flood 1	Elbo 1 Frond 1 Frond 1 Frond 2 Frond 3	tons tons tons tons	Ebb 1 Floors Ebb 2 Seech	Stade French Stade French Stade Stad	Special Floor Special
Sea	State						
Weather	Code						
Date/Time	(mm/dd/yy 24HH:MM)						
	Number						
Fishing	Captain						

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Sea State Code	Wave height	Characteristics	Weather Code	Cloud Cover
0	0 meters (0 ft)	Calm (glassy)	0	No Clouds/Fog
-	0 to 0.1 meters (0.00 to 0.33 ft)	Calm (rippled)	1	<50% Clouds
2	0.1 to 0.5 meters (3.9 in to 1 ft 7.7 in)	Smooth (wavelets)	2	>50% Clouds
ю	0.5 to 1.25 meters (1 ft 8 in to 4 ft 1 in)	Slight	3	100% Clouds/Fog
4	1.25 to 2.5 meters (4 ft 1 in to 8 ft 2 in)	Moderate		
2	2.5 to 4 meters (8 ft 2 in to 13 ft 1 in)	Rough		
9	4 to 6 meters (13 to 20 ft)	Very rough		
7	6 to 9 metres (20 to 30 ft)	High		
80	9 to 14 metres (30 to 46 ft)	Very high		
თ	Over 14 metres (46 ft)	Phenomenal		

Attachment B - Supplemental to Experimental Design

Opportunist Hydroacoustics Data Acquisition by ES60/70 Equiped Vessels

This secondary component of the experiment will be conducted in two phases. Phase one will be conducted during the month of February during normal cod fishing operations, and will consist solely of the opportunistic collection of hydro-acoustic data to monitor Pollock distribution around the study sites.

Phase two will commence upon the closure of the catcher vessel cod trawl fishery expected to occur in early March. Phase two will consist of data gathering/fishing trips from Adak to the study sites. Upon arrival at the site for the first time a vessel will conduct a hydro-acoustic survey composed of up to 50 nm of transects located between the 750 fm and 50 fm isobaths. The duration of required survey effort will be limited to 24 hours. The exact number, location, and orientation of the transects will be determined through consultation with NMFS scientific staff. In general, the transects will be parallel and run across the isobaths (see example in the figure below) at intervals from 2.5 to 4.0 nautical miles.

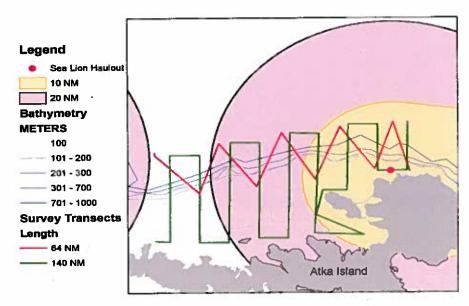
On subsequent trips upon arrival at the site the vessel will conduct an abbreviated survey of the area consisting of zig-zag transects running across the isobaths to locate an exploitable aggregation of Pollock. Following the acoustic snapshot survey the vessel will commence fishing. No fishing will be conducted within any Steller sea lion RPA site otherwise closed to pollock fishing.

Hydro-acoustic data will be collected during all searching and fishing activities. Data stored on removable drives will be turned over to AFSC following the fishery.

Additional sampling will be done at the shorebased processing facility. Observers on AFA vessels will sample each haul at sea as per observer protocols:

https://www.afsc.noaa.gov/FMA/Manual_pages/MANUAL_pdfs/manual2018.pdf

All catch will be retained to be sorted and weighed after delivery at the processing plant. Additional sampling will be done at the shorebased processing facility. The number of fish measured and otoliths collected may be increased relative to the observer protocols. Female Pollock maturity for fish from which otoliths can be taken will be collected. Fin clip samples may be collected and preserved for genetics work.



Example of transects.

Attachment C

Summary of AI POP and Pollock Specifications

(from Federal Register / Vol. 83, No. 39 / Tuesday, February 27, 2018 / Rules and Regulations)

POP Apportionments

2018 541 POP ABC = 10,021 , TAC = 9,000, difference = 1,021 2018 542 POP ABC = 7877, TAC = 7,500, difference = 377 2019 541 POP ABC = 9715 , TAC = 9,715, difference = 0 2019 542 POP ABC = 7,549, TAC = 7,549, difference = 0 2019 541 POP AFA CV sideboard limit 67 mt, AFA CP limit 174 2018 541 POP ICA = 100, 542 POP ICA = 120 2018 541 TLAS = 794 542 TLAS = 658 2018 541 AM80 = 7,143 542 AM80 = 5,920

Pollock Apportionments

2018 Al Pollock ABC = 40,788, TAC = 19,000, difference = 21,788 2019 Al Pollock ABC = 30,803, TAC = 19,000, difference = 11,803 2019 Al Pollock Apportionments ICA =2,400 A season ICA = 1,200 B season ICA = 1,200 Aleut Corporation 14,700 (> 60' limit = 8,500)

A season DFA limit 10,361, B season DFA limit 4,339 (plus A season rollovers) Area 541 A season limit 9,241, Area 542 A season limit 4,620



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration National Marine Fisheries Service

Alaska Fisheries Science Center 7600 Sand Point Way N.E. Seattle, Washington 98115-6349

October 16, 2018

MEMORANDUM FOR:

James W. Balsiger

Administrator, Alaska Region

FROM:

Jeremy Rusin

Acting Science and Research Director, Alaska Region

SUBJECT:

Exempted Fishing Permit application from the Aleut Corporation

to test alternative methods for limiting bycatch of Pacific Ocean

perch (POP) in the Aleutian Island (AI) Pollock fishery.

The Alaska Fisheries Science Center (AFSC) has reviewed the attached Exempted Fishing Permit (EFP) from the Aleut Corporation. The AFSC finds the experimental design to be valid for the stated objective of testing alternative methods of limiting bycatch of POP in the AI Pollock fishery.

The AFSC thinks the proposal provides a logical means to implement a fishery for this species. The 500 t allowance on Pacific Ocean perch (POP; Sebastes alutus) will have minimal impacts on this stock which currently has an ABC of 41,212 (POP catch from this EFP would make up 1.2% of the overall allowable catch for 2019). The procedure for recording captains' estimates of POP bycatch at different times during harvesting will provide a novel means to evaluate fishers' ability to discern POP from pollock while fishing, data that would not otherwise be available. In addition the recording of ES-60/70 data, paired with observer data on catch composition, along with fishers information on catch composition and perceptions during the fishing operations will provide a means to evaluate possible technical measures that could be implemented to reduce POP bycatch in the AI pollock fishery. Through this EFP the Aleut Corporation is allowed to fish pollock, POP bycatch amounts will be limited to 500 t, data will be collected which may allow us to reduce POP bycatch even further in the future, and the safety of the fishers is taken in to consideration in allowing them to retain and deliver tows with higher POP amounts instead of sorting POP from the catch on deck.

Although the AFSC finds the experimental design valid, our Fisheries Monitoring and Analysis (FMA) Division have some specific comments and requests that will need to be addressed (see attached). Once our concerns have been addressed, the AFSC recommends approval of this EFP application and looks forward to working with the Aleut Corporation on this project.

CC: F/AKC – J. Rusin, J. Ferdinand, S. Barbeaux, R. Felthoven,

F/AKR - M. Mackey



Fisheries Monitoring and Analysis Division Comments on the Aleut Corporation's Exempted Fishing Permit Application for the Aleutian Island Pollock Fishery October 10, 2018

This EFP request addresses the fact that the current Maximum Retention Amount (MRA) of Pacific Ocean Perch (POP) in the targeted Pollock fishery in the Aleutian Islands (AI) is a poor – and often dangerous – management design for fishermen. This is due to catch handling practices required to discard POP, and is complicated by the fact that POP biomass in the Aleutian Islands has greatly increased over the past decade.

The EFP requests for regulatory exemptions do not directly involve the North Pacific Observer Program, and would not affect sampling, deployment, or monitoring for compliance in any way by observers.

Below are FMA's comments on specific sections of the application:

Section 4.1:

- The accounting of catch appropriately under the EFP relies on observer data. Catch of POP would be allocated between NMFS reporting areas (541 and 542). In order to prevent apportioning of catch by area based on observer catch size estimates, FMA would prefer if the EFP constrain vessels to harvesting in a single area during a trip.
- FMA would prefer if all shoreside sampling remained consistent with our standard procedures, including the collection of tissue samples for genetics. (See also comments under 4.4 and Appendix B.)

Section 4.3:

- Inclusion of vessel descriptions for the participating vessels is helpful and highlights the
 differences in observer sampling accommodations by AFA¹ and non-AFA catcher vessels.
 FMA requests that the non-AFA vessels be required to, "have accommodations for an
 observer, and provide adequate space on deck for the observer to store at least 300 kg
 of unsorted catch."
- Based on the EFP description, it would seem that timely data transmission is important
 to this project's success. FMA recommends that to support this need, and to clarify the
 vessel responsibilities, that the EFP include data transmission responsibilities as
 described in 679.51 (e) for all participating vessels.

Section 4.4:

• The processing facilities which will accept AI Pollock deliveries should also be specified under the EFP. (Also see concern under Appendix B.)

Section 5:

 FMA requests that the EFP stipulate if the POP hard cap would be determined by extrapolated observer data from at-sea samples or by landings information.

¹ AFA – American Fisheries Act

Section 6:

 Clarify that this EFP will rely upon NMFS-certified observers conducting routine observer duties rather than sea samplers, who have their duties assigned by the EFP holder, whose data is not necessarily reported to NMFS, and who operate outside of FMA's guidance.

Appendix B:

 There is reference to observer sampling at the processing plant(s) for the AFA catcher vessels. FMA is concerned about reports of lengthy offload times for the Adak processing facility that may exceed reasonable observer workloads. We request the EFP consider placing a dedicated plant observer in Adak to ensure success of the processor's Catch Monitoring Control Plan.

November XX, 2018

MEMORANDUM FOR: THE RECORD

FROM: James W. Balsiger, Ph.D.

Administrator, Alaska Region

SUBJECT: NEPA Categorical Exclusion for an Exempted Fishing Permit for the

Aleut Corporation to Test Methods to Fish for Aleutian Islands Pollock While Minimizing Bycatch of Pacific Ocean Perch; RIN

0648-XG535

The National Oceanic and Atmospheric Administration's (NOAA) Environmental Review Procedures for Implementing the National Environmental Policy Act, NOAA Administrative Order (NAO) 216-6A, dated April 22, 2016, NOAA's Companion Manual for NAO 216-6A dated January 13, 2017, and Council on Environmental Quality regulations require all proposed projects to be reviewed with respect to environmental consequences on the human environment.

Description of the Action

The National Marine Fisheries Service (NMFS) received an application for an exempted fishing permit (EFP) from Dave Frasier of the Aleut Corporation on July 19, 2018. The purpose of the requested EFP is to test methods for limiting Pacific ocean perch (POP) bycatch in the Aleutian Islands (AI) pollock fishery. This could provide an opportunity for the Aleut Corporation to develop an economically viable AI pollock fishery while improving safety at sea and reducing POP bycatch mortality.

No more than 500 mt of POP would be harvested under this EFP by AFA vessels greater than 60 feet length over all (LOA) and non-AFA vessels less than 60 feet LOA together. That amount of POP will be taken from above the total allowable catch (TAC) but below the allowable biological catch (ABC). A maximum of 10,361 mt of walleye pollock will be harvested under this EFP. This is the pollock allocation to the Aleut Corporation included in the TAC. Fishing for pollock under this EFP would be required to cease if the pollock or POP limits are attained. Any salmon bycatch will be counted against the Prohibited Species Catch (PSC) cap for the Aleutian Island Pollock fishery. Any incidental catch of non-pollock species will be accounted against the Optimum Yield. All catch will be retained for sampling at the processing plant.

The EFP would be in effect during the months of January through April 15th, and it is anticipated that most of the fishing would be conducted in March. The EFP would allow an exemption from the POP maximum retainable amount (MRA) of 5%. That exemption would be in effect from the time the harvest specifications are final (approximately

February 27 – March 1, 2019) until the April 15, 2019 start date for the POP fishery. The EFP would also allow an exemption from the POP halibut PSC limit. Pollock halibut PSC would not be exempt from the limit since the pollock is accruing to the TAC (83 FR 8365).

The experiment would be conducted on trawl catcher vessels eligible to fish the Aleut Corporation's pollock allocation. Vessels would be equipped for pelagic pollock fishing, and 100 percent observer coverage would be required. Preference would be given to vessels equipped with a Simrad ES-60 or ES-70 echo-sounder with a 38kHz split beam transducer.

Prior to the fishing, each vessel's captain would record the tools they have available for discerning POP aggregations (e.g. echo-sounders, sonar, net sounders, etc.). While fishing, captains would be asked to report weather and tidal conditions for each haul. The captains would record their predicted proportion of POP prior to each haul and later the realized proportion of POP in each haul, and would record notes regarding why there may have been a mismatch in predicted versus realized POP. The testing of predictions would provide a means to test the captains' skill in identifying POP *in situ* with their available tools and evaluate the means for their success. Acoustic data from vessels equipped with ES-60 or ES-70 echo-sounders would be collected during fishing operations to help develop possible POP identification and avoidance measures.

During an EFP fishing trip, a permitted vessel and its operator would be exempt from the applicability of two regulations. First, an exemption would be necessary from MRA requirements at § 679.20(e)(ii). AFA CVs and non-AFA CVs less than 60 ft LOA fishing for AI pollock under the Aleut Corporation's permit would be exempted from the 5 percent MRA limit for POP in the pollock fishery. This exemption would apply from the date the 2019 final harvest specifications are effective until April 15 of each year this EFP is valid. Harvest specifications may be found at https://alaskafisheries.noaa.gov/.

Second would be an exemption from § 679.21(b)(1)(ii)(B)(4) that applies to halibut PSC bycatch management and PSC limits for rockfish trawl fisheries in the BSAI. Vessels fishing under this EFP would be exempt from the halibut PSC limit applicable to directed fishing for POP in the BSAI.

Effects of the Action

The experiment conducted under the proposed EFP would be expected to help improve the avoidance POP bycatch in the AI pollock fishery with the added goal of improving safety at sea by reducing the amount of time necessary to stow catch by eliminating the need to sort POP from the catch on deck.

The proposed EFP would be of limited scope and duration and would not appreciably alter trawling by the pollock catcher vessel sector, including fishing location, timing, effort, or authorized gear types. Because the pollock would be taken out of the TAC, that is covered by the NEPA analysis for the annual specifications. POP harvest levels may be increased slightly since

POP catch under the EFP would not accrue against the TAC, but would remain below the ABC level.

The proposed EFP is within the scope of consultation completed under section 7 of the Endangered Species Act (ESA) for ESA-listed species that may be adversely affected by the action. Those consultations have determined that the proposed EFP is not likely to adversely affect those species. For these reasons this EFP would not have any significant effects on the environment.

Extraordinary Circumstances

This action is not part of a larger action, and therefore can be reviewed independently from other actions. Additionally, I considered the context in which the action could have extraordinary circumstances listed in NOAA's Companion Manual for NAO 216-6A Section 4 and expect no extraordinary circumstances.

Based on the description of the action and its anticipated effects set out above, I have determined that the proposed action has no potential for significant adverse effects on: human health or safety; areas with unique environmental characteristics; species or habitats protected by the ESA, the Marine Mammal Protection Act, the Magnuson-Stevens Fishery Conservation and Management Act, or the Migratory Bird Treaty Act; or properties listed or eligible for listing on the National Register of Historic Places. Furthermore, this action has no potential to generate, use, store, transport, or dispose of hazardous or toxic substances. Nor is there the potential to cause disproportionately high and adverse effect on the health or the environment of minority or low-income communities, compared to the impacts on other communities. This action will not contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species. The action does not pose a potential violation of Federal, State, or local law or requirements imposed for protection of the environment; involve environmental effects that are highly controversial, uncertain, unique, or unknown; establish a precedent or decision in principle for future actions, or result in cumulative significant impacts.

Categorical Exclusion

As defined in Section 4 and Appendix E of NOAA's Companion Manual for NAO 216-6A, this action is categorically excluded from the need to prepare either an Environmental Assessment or an Environmental Impact Statement. Specifically, the proposed action falls into the category of actions subject to categorical exclusion identified in Appendix E of NOAA's Companion Manual for NAO 216-6A, B12, for the issuance of EFPs.