

**Measures to support community protections for Eastern Aleutian Islands communities:  
Pacific cod processing sideboards**

**December 2008**

At its June 2008 meeting, the Council requested that staff provide a discussion paper on potential options to establish processing sideboards for Pacific cod harvests in the Eastern and Central Aleutian Islands (Areas 541 and 542, respectively). The Council motion redirected staff from providing a formal analysis, as requested in April, to developing a discussion paper. The purpose of this paper is to review the Council's draft problem statement and provide a preliminary assessment of the proposed options. Note that at this same meeting, the Council requested a separate discussion paper on potential options to establish processing sideboards for Atka mackerel and Pacific ocean perch harvests in the Eastern and Central Aleutian Islands. This paper is also scheduled to be reviewed at the December 2008 Council meeting.

**Problem Statement & Background**

The problem statement and additional statements regarding the affected area and sectors from the June 2008 Council motion are as follows:

Draft problem statement:

The American Fisheries Act, BSAI crab rationalization program, and BSAI Amendment 80 program each provide benefits to processing vessels that were intended to protect investments in and dependence on the respective fishery resource. Each of these rationalization programs has afforded opportunities for consolidation, thus freeing some processing capacity to target the non-rationalized BSAI Pacific cod fishery at the expense of other industry and community investments.

Affected resource and areas:

Pacific cod harvested in Areas 541 and 542 from the Federally-managed and State parallel fisheries.

Affected vessels:

Vessels that received benefits under a rationalization program with a processing element, including: AFA vessels, processing vessels that contributed history to *C. opilio* BSAI crab processing quota share allocations, and catcher processors that qualified under Amendment 80.

The draft problem statement above notes three specific rationalization programs: American Fisheries Act (AFA), BSAI crab rationalization, and BSAI Amendment 80, which provide benefits to processing vessels and afford opportunities for consolidation, thus freeing some processing capacity to target the non-rationalized BSAI Pacific cod fishery. Pacific cod harvested by catcher vessels is one of the primary remaining fisheries in the BSAI that is not operating under a rationalization program. And while there are limitations on the amount of Pacific cod harvested by the rationalized sectors, there are no limits on the amount of Pacific cod harvested by catcher vessels that can be delivered to catcher processors or floating processors that operate under these rationalized programs. In the recent past, representatives from Adak have proposed Council action to provide such processing limits (sideboards) in the Eastern and Central AI Pacific cod fisheries, in order to protect shoreside processing opportunities for Pacific cod.

A sideboard is a collective limit for all vessels subject to the sideboard; it does not represent a guaranteed allocation. Vessels subject to a sideboard are allowed to fish up to the sideboard limit but cannot exceed it. While harvesting sideboards have been included as part of each rationalization program established in

the North Pacific, processing sideboards are not as common. Processing sideboards were included in the AFA, but not adopted in either the BSAI Crab Rationalization Program or the BSAI Amendment 80 program.

The AFA, effective in 1999, created exclusive allocations of Bering Sea pollock for catcher vessels, catcher processors (CPs), and motherships, and included harvest sideboards for both the AFA catcher vessel and catcher processor sectors in the BSAI and the GOA. Regulations implementing the AFA prohibit AFA CPs from fishing in the GOA, and limit their processing of pollock and other groundfish.<sup>1</sup> The AFA also included crab processing sideboards, the regulations for which were based on the structure defined in the Act under Section 211(c)(2)(A).<sup>2</sup> This section of the Act is specific to shorebased and mothership processors. (Recall that catcher/processors are precluded from processing any crab under the AFA.) The AFA crab processing sideboards were eventually subsumed by the processing quota share allocations established under BSAI crab rationalization. The Council also established pollock processing limits for the AFA fleet, set at 30 percent of the BSAI pollock TAC available to the AFA sector.<sup>3</sup> Additional measures to protect non-AFA processors through groundfish processing sideboards have been considered by the Council, but further discussions and decisions have been tabled until negative impacts are realized (NPFMC, April 2002).<sup>4</sup>

BSAI Amendment 80 allocates several BSAI non-pollock<sup>5</sup> groundfish fisheries among trawl fishing sectors, and facilitates the formation of harvesting cooperatives in the non-AFA trawl catcher processor sector. In effect, the program establishes a limited access privilege program<sup>6</sup> for a subset of the non-AFA trawl catcher processor sector. Many of the elements of Amendment 80 were effective on October 15, 2007; the remaining portions of the final rule were effective January 2008.<sup>7</sup>

The BSAI Crab Rationalization Program, effective in 2005, allocates BSAI crab resources among harvesters, processors, and coastal communities. Share allocations to harvesters and processors, together with incentives to participate in fishery cooperatives, were intended to increase efficiencies, provide economic stability, and facilitate compensated reduction of excess capacities in the harvesting and processing sectors. Regional landing and processing requirements were included, as well as other community protection measures. Most king and Tanner crab fisheries in the BSAI are now rationalized

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<sup>1</sup> 50 CFR 679.7(k)(1)(ii) It is unlawful for any person to use a listed AFA catcher/processor to harvest any species of fish in the GOA; and 50 CFR 679.7(k)(1)(iv) It is unlawful for any person to use a listed AFA catcher/processor to process any pollock harvested in a directed pollock fishery in the GOA and any groundfish harvested in Statistical Area 630 of the GOA.

<sup>2</sup>Section 211(c)(2)(A): (2) *BERING SEA CRAB AND GROUND FISH*.—(A) *Effective January 1, 2000, the owners of the motherships eligible under section 208(d) and the shoreside processors eligible under section 208(f) that receive pollock from the directed pollock fishery under a fishery cooperative are hereby prohibited from processing, in the aggregate for each calendar year, more than the percentage of the total catch of each species of crab in directed fisheries under the jurisdiction of the North Pacific Council than facilities operated by such owners processed of each such species in the aggregate, on average, in 1995, 1996, 1997. For the purposes of this subparagraph, the term “facilities” means any processing plant, catcher/processor, mothership, floating processor, or any other operation that processes fish. Any entity in which 10 percent or more of the interest is owned or controlled by another individual or entity shall be considered to be the same entity as the other individual or entity for the purposes of this subparagraph.*

<sup>3</sup>50 CFR 679.7(k)(7) Excessive processing shares. It is unlawful for an AFA entity to process an amount of BS pollock that exceeds the 30-percent excessive share limit specified under § 679.20(a)(5)(i)(A)(7). The owners and operators of the individual processors comprising the AFA entity that processes BS pollock will be held jointly and severally liable for exceeding the excessive processing share limit.

<sup>4</sup>*Report to the U.S. Congress and Secretary of Commerce: Impacts of the American Fisheries Act*, NPFMC, April 2002.

<sup>5</sup>The groundfish species in the BSAI directly affected by Amendment 80 include Atka mackerel, AI Pacific ocean perch, Flathead sole, Pacific cod, rock sole, and yellowfin sole.

<sup>6</sup>The Magnuson Stevens Act (as amended through Jan. 12, 2007) defines the term: “‘limited access privilege’— (A) means a Federal permit, issued as part of a limited access system under section 303A to harvest a quantity of fish expressed by a unit or units representing a portion of the total allowable catch of the fishery that may be received or held for exclusive use by a person; and (B) includes an individual fishing quota; but (C) does not include community development quotas as described in section 305(i).”

<sup>7</sup>The final rule is published at 72 FR 52668 (September 14, 2007).

crab fisheries. This includes the IFQ/IPQ fisheries; the CDQ crab fisheries (except in Norton Sound), and the allocation of golden king crab to Adak. A few BSAI king and Tanner crab fisheries remain under the License Limitation Program.<sup>8</sup>

Each of these three programs is considered a limited access privilege program, or rationalization program, created to allow members to form cooperatives and thus improve both resource conservation and economic efficiency for harvesters who participate in those specific fisheries. Generally, these programs are intended to allow members of the specified sectors to more nearly optimize when and where they fish, which would potentially reduce bycatch, minimize waste, and improve utilization of fish resources. The intended results include increased operational efficiency for vessels in the program, by allowing them to alter their historic fishing patterns and operate under a cooperative structure. The flexibility introduced under these programs, and the ability to operate under a cooperative system, potentially provide these vessels a competitive advantage over participants in other fisheries that are not currently operating under a rationalized system.

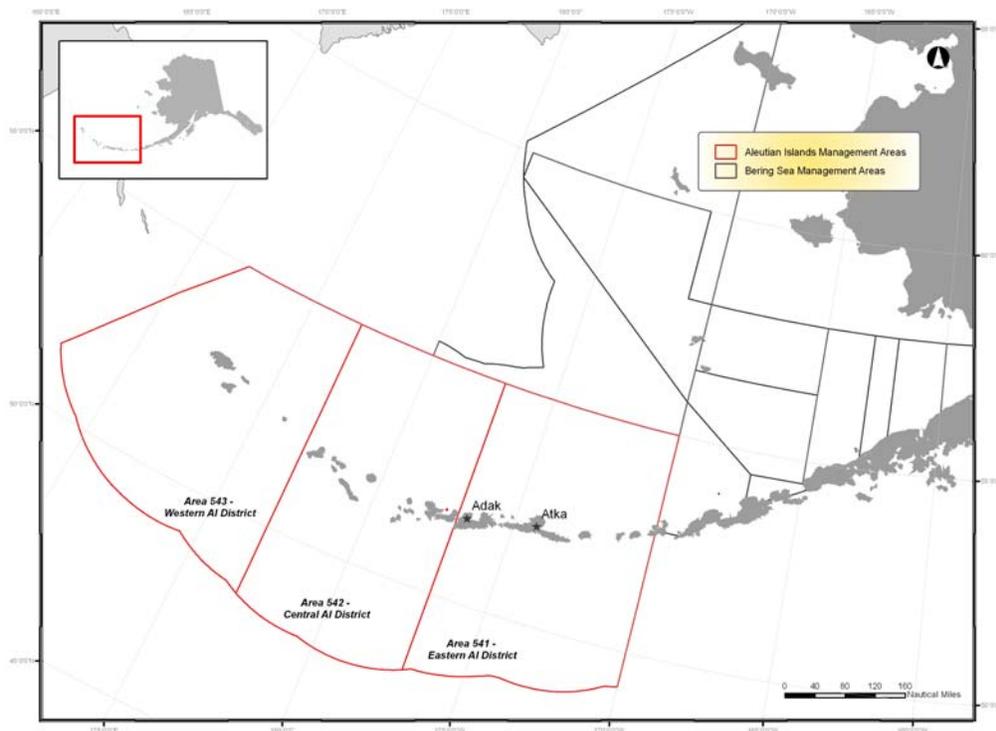
All of these rationalization programs included other broad goals to limit the ability of these sectors to expand their harvesting capacity into other fisheries not managed under a limited access privilege program. The Council recognized this need by establishing harvesting sideboards in various other fisheries and areas. However, while the AFA, crab rationalization, and Amendment 80 allow for consolidation of rationalized harvesting *and processing* sectors, BSAI groundfish processing sideboards were not established for these sectors, with the exception of the 30% pollock processing (excessive share) limits for the AFA fleet.

The Council motion from June 2008 notes that the action under consideration to establish Pacific cod processing sideboards is intended to protect two Aleutian Islands communities. These are Atka and Adak, both of which are located in Area 541, the Eastern Aleutian Islands (see Figure 1).

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<sup>8</sup>Source: <http://www.fakr.noaa.gov/sustainablefisheries/crab/rat/progfaq.htm#wicr>

**Figure 1 Map of Federal Reporting Areas 541, 542, and 543 (Aleutian Districts)**



Proponents of the proposed action from Adak contend that lack of sideboards on processing of Pacific cod harvested in the Eastern and Central Aleutian Islands preempts a significant opportunity for Pacific cod harvests to benefit vessels operating out of Adak and delivering their catch to its shorebased processor. The transient markets provided by mobile floating processors (motherships) undermine community stability by operating only during the most profitable part of the season. They contend that this makes it difficult for shorebased processors to remain in business and provide the year-round markets necessary for smaller vessels engaged in a suite of different fisheries.

This concern was prompted in 2008, due to perceived negative impacts on Adak from additional processing by motherships in the Eastern and Central AI during the 2008 BSAI Pacific cod A season; however, proponents of the action have related concerns that the cumulative effect of several management actions that restrict the expansion of fishing opportunities has contributed to the problem. Specifically, with the advent of several rationalization programs (e.g., AFA, BSAI crab rationalization, and Amendment 80), there is a concern that mobile, floating processors (i.e., vessels operating as motherships) could increase effort in any remaining open fishery.

### Affected resource and areas

The Council motion clarifies that the action would affect Pacific cod harvested in Areas 541 and 542 from the Federally-managed and State parallel fisheries. The proposed action focuses on limiting catcher vessel deliveries of Pacific cod in Area 541 (Eastern Aleutian District) and Area 542 (Central Aleutian District) to the three rationalized sectors (see the following section for details on these sectors).

Staff assumes that the processing sideboard would apply to all non-CDQ Pacific cod harvested by catcher vessels in these two areas in the Federal fishery, which includes the Pacific cod fishery in Federal waters and the parallel fishery that occurs in State waters. The State parallel fishery is opened at the same time as

the Federal fishery in Federal waters. State parallel fishery harvests are considered part of the Federal total allowable catch (TAC) and Federally-permitted vessels move between State and Federal waters during the concurrent parallel and Federal fisheries. The State opens the parallel fisheries through emergency order by adopting the groundfish seasons, bycatch limits, and allowable gear types that apply in the adjacent Federal fisheries.<sup>9</sup> The Council should clarify if it intends for CDQ harvests to be included. Currently, the vast majority of CDQ Pacific cod is harvested by hook-and-line CPs, thus, there may be no practical effect regardless. However, staff assume that the CDQ BSAI Pacific cod fishery would not be included in the proposed action, nor are any catcher vessel harvests in the CDQ fisheries used to calculate the proposed options for cod processing sideboards in this paper.

Note that the proposed action would not affect the State-managed Pacific cod fishery that occurs in State waters in the AI. This fishery was established by the Alaska Board of Fisheries in 2006, and comprises 3% of the Federal BSAI Pacific cod ABC. This fishery is managed by the State and has different sector requirements and seasons than the Federal Pacific cod fishery. During the first three years of this fishery, the majority of the harvest has been taken by trawl gear. Regarding catcher vessel deliveries, more cod was delivered to floating processors than shorebased processors in 2006 and 2008, while shorebased plants processed the majority in 2007. Summary harvest data on the State water AI Pacific cod fishery, by gear type and processing type, are provided in **Appendix 1**. The State-managed AI Pacific cod fishery would not be affected by the proposed action, nor are the harvests in these fisheries used to calculate the proposed options for cod processing sideboards.

### Affected processing sectors

The Council motion identifies three sectors that would potentially be subject to a processing sideboard limit on Pacific cod harvested in Areas 541 and 542. These are vessels that received benefits under a rationalization program that included a processing element. The motion identifies:

- AFA vessels
- Processing vessels that contributed history to *C. opilio* BSAI crab processing quota share allocations
- Catcher processors that qualified under BSAI Amendment 80

There are 21 AFA CPs and 3 motherships. It is currently assumed that these are the vessels that would be subject to the proposed processing sideboard, unless the Council specifies otherwise. A list of these vessels is provided as **Appendix 2**. These are also the vessels whose history (amount of Pacific cod delivered to these vessels by other catcher vessels) is used to calculate the proposed options for the cod processing sideboard. Note that the AFA CP sector currently has a Pacific cod harvest allocation of 2.3 percent of the BSAI Pacific cod ITAC, and thus is not subject to a harvest sideboard for Pacific cod. Note also that one eligible AFA CP is also eligible under Amendment 80.

**Appendix 3** lists the 28 processing vessels that may be construed to have contributed history to *C. opilio* BSAI crab processing quota share (PQS) allocations under the crab rationalization program. Fifteen of those vessels are floating processors, and thirteen are catcher processors. Under the crab rationalization program, a company that processed crab in 1998 or 1999 (or had a substantial processing history in the Bering Sea *C. opilio* fishery and met an investment requirement) was eligible to receive an allocation of PQS. Any processing vessel owned by a company meeting the eligibility criteria that received deliveries during a fishery's qualifying period (1997 to 1999, inclusive, for Bering Sea *C. opilio*) contributed history toward the company's allocation of PQS in that fishery. In addition, vessels that met the processing

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<sup>9</sup>In some cases, the State may establish additional gear or vessel size restrictions in State waters that would apply even during the parallel fishery (i.e., if the State establishes a general prohibition on trawl gear in State waters, that continues to apply during the parallel fishery).

eligibility criteria that processed their own catch as catcher processors also were eligible to receive catcher processor QS based on qualified catcher processor history (1996 to 2000, inclusive, for Bering Sea *C. opilio*).

Since catcher processor QS is severable into catcher vessel QS and PQS, any vessel receiving catcher processor QS under the program might be considered to have effectively received PQS. In addition, catcher processor QS was based on crab that was caught and processed, indicating that the vessels operated as a processing platform historically, and could again in the future. This paper assumes that all 28 processing vessels, whether floaters or catcher processors, fall under the category identified in the Council motion. The Council should clarify if that is not the intent. The estimates in this paper include deliveries to all vessels that contributed history to a PQS allocation in the Bering Sea *C. opilio* fishery or received an allocation of catcher processor QS in the Bering Sea *C. opilio* fishery.

NOAA Fisheries recently completed its determination of the qualifying vessels under Amendment 80. The license tied to the Amendment 80 quota, as well as all other LLPs assigned to the qualifying vessel at the time of Amendment 80 program implementation, are restricted from being used by a non-Amendment 80 vessel. Congress determined that the qualification period for Amendment 80 vessels is based on harvests from 1997 through 2002; a total of 28 vessels are qualified for the Amendment 80 program.<sup>10</sup> The specific amount of QS that each of these qualified vessels may generate was developed by the Council and is based primarily on catch during 1998 through 2004. The list of catcher processors that qualified under Amendment 80 is provided as **Appendix 4**. The 28 licenses originally assigned to the Amendment 80 vessels are listed in the final rule.<sup>11</sup> The Amendment 80 sector currently has a Pacific cod harvest allocation of 13.4 percent of the BSAI Pacific cod ITAC, and thus is not subject to a harvest sideboard for Pacific cod.

#### Background data on the BSAI Pacific cod fishery

The Federal Pacific cod TAC allocations and apportionments for 2008 and 2009 are located in Table 5 of the groundfish specifications published February 26, 2008 (73 FR 10168) and attached to this paper as **Appendix 5** for reference. The 2008 BSAI Pacific cod TAC is 170,720 mt, with the CDQ allocation of 10.7 percent, or 18,267 mt. Thus, the 2008 BSAI Pacific cod ITAC is 152,453 mt.

The BSAI Pacific cod ITAC is currently fully distributed among nine competing harvest sectors, five of which are catcher vessel sectors: hook-and-line CV  $\geq 60'$ ; pot CV  $\geq 60'$ ; hook-and-line or pot CV  $< 60'$ ; trawl CV; and jig vessels. The CP sectors are: hook-and-line CP; pot CP; AFA trawl CP; and Amendment 80 trawl CP. (The Amendment 80 CP sector is further divided between Am. 80 cooperatives and the Am. 80 limited access sector.) The BSAI Pacific cod TAC has been apportioned among different gear sectors since 1994, with the most recent amendment to the allocations effective in 2008 (BSAI Amendment 85). Currently, about 34 percent of the total non-CDQ allocation of BSAI Pacific cod is to catcher vessel sectors. The majority (22.1 percent of the non-CDQ BSAI Pacific cod TAC) is allocated to the trawl CV sector.

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<sup>10</sup>The non-AFA trawl CP sector (universe of Amendment 80 vessels) was defined by the Consolidated Appropriations Act of 2005, Section 219(a)(7), which required a CP to have harvested with trawl gear and processed not less than a total of 150 mt of non-pollock groundfish during the period January 1, 1997, to December 31, 2002.

<sup>11</sup>On May 19, 2008, in the case *Arctic Sole Seafoods v. Gutierrez*, the Western District of Washington ruled that a qualified owner of an Amendment 80 vessel may “replace a lost vessel with a single substitute vessel.” This ruling would allow a person to replace an Amendment 80 vessel that has suffered an actual total loss, constructive total loss, or permanent ineligibility to receive a fishery endorsement under 46 U.S.C. 12108. For example, a person could replace a lost Amendment 80 vessel with another vessel that had historically been active processing AI Atka mackerel or POP. Thus, the Council should clarify whether an Amendment 80 replacement vessel would be subject to the proposed sideboard restriction, or if the restriction is intended to apply only to the list of Amendment 80 vessels originally identified to be used in the fishery as listed in Table 31 to part 679.

Note that there continues to be one combined BSAI Pacific cod TAC, although the Council previously considered different methodologies by which to maintain sector allocations should the BSAI Pacific cod TAC be apportioned between the BS and the AI during a future harvest specifications process. The issue of whether to split the combined TAC has been raised at Plan Team, SSC, and Council meetings during the last several years, with recognition that management implications complicate the issue of adopting separate area TACs in the near future. At its December 2008 meeting, the Council is scheduled to receive a report on the compilation of existing scientific information relevant to a Pacific cod ABC and TAC area split, and review a discussion paper on the previous alternatives to divide sector allocations between the BS and AI (should a split occur).

The first tables provide background information on the BSAI Pacific cod for reference. Table 1 shows retained harvest of Pacific cod in the BSAI by year and operating type (CP or CV), from 2000 through mid-October 2008. Note that this table does not include CDQ harvest or harvests from the State water Pacific cod fishery in the AI, as those fisheries would not be affected by the proposed action. This table provides information on how much of the retained BSAI Pacific cod harvest is attributed to catcher vessels, which may deliver to vessels acting as motherships, stationary floating processors, or shoreside processors.

**Table 1 Retained harvest of BSAI Pacific cod in the BSAI, 2000 – 2008**

Year	Harvest sector <sup>1</sup>	BSAI tons	BSAI vessel count
2000	CP	115,447	86
	CV	58,360	n/a
2001	CP	126,324	86
	CV	35,204	n/a
2002	CP	124,846	84
	CV	54,365	n/a
2003	CP	128,017	81
	CV	65,353	247
2004	CP	138,016	81
	CV	55,700	230
2005	CP	136,964	80
	CV	50,574	228
2006	CP	121,860	81
	CV	50,240	217
2007	CP	107,981	79
	CV	46,753	229
2008 (thru 10/11/08)	CP	82,507	82
	CV	46,663	236

Source: NMFS blend/catch accounting database, 2000 – 2008. 2008 data are preliminary, and only include harvest through week-ending date 10/11/08. Retained catch only. Excludes CDQ harvests and State-managed AI P. cod fishery.

<sup>1</sup>Harvest sector indicates whether a vessel was acting as a CV or CP during a given landing. A given vessel may operate as both a CV and CP.

n/a = not available. Unique CV counts in these data are not reliable prior to 2003.

Table 1 includes harvest from any gear type, although the vast majority is from vessels using hook-and-line gear or trawl gear. All gear types are included, as the proposed action does not differentiate between gear types. The majority of the harvest has been by CPs, most notably hook-and-line CPs. The harvest of BSAI Pacific cod has been relatively stable during this time period, with TACs around 200,000 mt until 2007. During this period, total retained harvest reached a low of about 155,000 mt (2007) and a high of about 194,000 mt (2004). The CV harvest has also been relatively steady, with a high of about 65,000 mt in 2003.

**Table 2 Retained harvest of Pacific cod from the Eastern and Central AI, 2000 – October 2008**

Year	Harvest sector <sup>1</sup>	Eastern and Central AI tons	Eastern and Central AI vessel count	Percent AI/BSAI
2000	CP	14,485	41	12.5%
	CV	13,761	n/a	23.6%
	Total	28,246		16.3%
2001	CP	13,896	33	11.0%
	CV	6,804	n/a	19.3%
	Total	20,700		12.8%
2002	CP	11,847	28	9.5%
	CV	15,184	n/a	27.9%
	Total	27,031		15.1%
2003	CP	11,751	25	9.2%
	CV	17,242	56	26.4%
	Total	28,993		15.0%
2004	CP	11,158	23	8.1%
	CV	13,498	38	24.2%
	Total	24,656		12.7%
2005	CP	9,215	20	6.7%
	CV	8,000	33	15.8%
	Total	17,215		9.2%
2006	CP	8,546	24	7.0%
	CV	6,201	40	12.3%
	Total	14,748		8.6%
2007	CP	10,636	24	9.8%
	CV	12,301	53	26.3%
	Total	22,937		14.8%
2008 (thru 10/11/08)	CP	5,165	22	6.3%
	CV	11,268	65	24.1%
	Total	16,433		12.7%

Source: NMFS blend/catch accounting database, 2000 - 2008. 2008 data are preliminary, and include harvest through week-ending date 10/11/08. Retained catch only. Excludes CDQ harvest and State-managed AI P. cod fishery.

<sup>1</sup>Harvest sector indicates whether a vessel was acting as a CV or CP during a given landing. A given vessel may operate as both a CV and CP. N/a = not available. Unique CV counts in these data are not reliable prior to 2003.

Table 2 shows the retained harvest of Pacific cod in Areas 541 and 542 (Eastern and Central AI, respectively) by year and operating type (CP or CV), from 2000 through October 11, 2008. The last column of Table 2 provides the percentage of total retained BSAI Pacific cod harvest attributed to the Eastern and Central AI, from a low of 8.6% in 2006 to a high of 16.3% in 2000. While 2008 data are

preliminary and only provided through mid-October 2008, the data to-date show 12.7% of the total BSAI Pacific cod catch was harvested in the Eastern and Central AI. Note that a higher percentage of the total annual CV harvest (12% - 28%) was from the Eastern and Central AI during this time period, compared to the CP sectors (6% - 13%). Like the previous table, Table 2 does not include CDQ harvest or harvest from the AI State water Pacific cod fishery.

The BSAI Pacific cod allocations are seasonally allocated for each sector, with the exception of the allocation to the hook-and-line/pot <60' sector. Refer to Appendix 5 for the current seasonal apportionments for each sector. Note that unharvested seasonal allocations roll to the sector's next season within the same year. The temporal dispersion measures in the BSAI Pacific cod fishery, primarily a result of the 2001 Biological Opinion on Steller sea lions, were established to meet a seasonal target of 70% harvest in the first half of the year (January 1 – June 10) and 30% in the second half (June 10 – December 31). The objective is to limit the amount of total cod harvest that could be taken in the first half of the year, in order to disperse the harvest of cod throughout the year, in consideration of foraging sea lions.

Most gear sectors prefer to take the majority of their harvest in the first (A) season, as a result of higher catch per unit effort due to increased aggregation of cod, as well as market and weather conditions. As with most sectors, the Pacific cod trawl CV A season has been shorter in recent years, due to various factors. Some of these factors affect all CV sectors, including: additional cod effort in the BSAI; allocation of 3% of the BSAI Pacific cod ABC to a State waters AI cod fishery starting in 2006; and an increase in the CDQ allocation from 7.5 percent to 10.7 percent in 2008. In addition, Amendment 85 reduced the trawl CV cod allocation from 23.5 percent of the BSAI Pacific cod ITAC (in 2007) to 22.1 percent (starting in 2008). Recently, the A season for BSAI trawl CV cod, which starts January 20, has been open less than 2 months, closing around mid-March (see Table 3 below).

**Table 3 Length of BSAI Trawl CV A season, 2000 - 2008**

Year	Length of A season for BSAI trawl CV Pacific cod allocation (days)
2008	46
2007	51
2006	47
2005	52
2004	63
2003	72
2002	72
2001	72
2000	73

Source: NOAA Fisheries, RAM Division.

### Background data on Adak and Atka

Adak and Atka are the two communities located in the eastern AI with shoreside processing plants that the processing sideboards are intended to protect, by limiting the amount of Pacific cod deliveries that each of the rationalized sectors (AFA, crab processing vessels, Amendment 80 CPs) can receive from catcher vessels harvesting cod in the Eastern and Central AI. Note that a separate action has been proposed to establish processing sideboards on the amount of Atka mackerel and Pacific ocean perch that Amendment 80 CPs can receive from these same areas.

Limited profiles of Atka and Adak are provided here for reference from two sources.<sup>12</sup> Atka is located on Atka Island towards the end of the Aleutian Island archipelago. It is one of the western most fishing communities in the Aleutian chain, and has a 2000 U.S. Census population of 92. Residents of Atka are primarily Alaska Native (Aleut), and the economy is predominantly based on subsistence living as well as commercial fishing. Atka is a CDQ community, represented by APICDA, and has a small onshore processor (Atka Pride Seafoods) which serves the local fleet and employs local residents. The primary species processed are halibut and sablefish, and the commercial fleet delivering to Atka is involved mainly in those fisheries. According to the CFEC, 4 permits were held by 3 permit holders in Atka in 2006, and 2 permits were held by 2 permit holders in 2007.

Note that the Council received a letter from city leaders in Atka at its April 2008 meeting, related to a proposal from Adak Fisheries for NMFS to develop an emergency rule to require that all trawl Pacific cod harvested in the region be delivered onshore in the 2009 A season.<sup>13</sup> While that proposal is not being developed, Atka noted that such processing restrictions would reduce their revenue opportunities. They currently depend upon a floating processor (M/V Independence, Trident Seafoods) to purchase and process Pacific cod. Trident pays a local sales tax to Atka, as well as raw fish taxes. The letter notes that Atka is planning to transition to processing crab and Pacific cod at its shoreplant in the future.

Both APICDA and Atxam Corporation, the village corporation in Atka, recently purchased processing quota share for Western AI golden king crab, with APICDA purchasing the maximum amount of shares under the cap. APICDA also holds Eastern AI golden king crab PQS, and Atxam holds Western AI red king crab PQS. Atka plans to use Trident's floater to process that crab this season, with plans to reconstruct its onshore processor and add a crab processing line in time for the 2009/2010 crab season.<sup>14</sup> The intent is to reconstruct the plant and add Pacific cod capacity as well, but representatives of Atka have emphasized that the ability to use a stationary floating processor in Atka is necessary in both the short and long-term for the viability of that community. Anecdotal evidence suggests that a high volume of cod is necessary to make cod operations economically viable, whether the operation is a shorebased plant or floating processor. Atka recognizes it would need to substantially increase its shoreplant capacity in order to make cod processing economically feasible.

Adak is located on Kuluk Bay on Adak Island in the Aleutian chain. It is the southernmost community in Alaska, with a 2000 U.S. Census population of 316, although estimates of year-round residents vary. According to City of Adak staff estimates, in 2007, the population was about 120 year-round residents. Unlike Atka, Adak is not a CDQ community. Most are aware of Adak's significant role during World War II as a U.S. military operations base, and the Aleut Corporation's current efforts to develop Adak as a commercial center and civilian community with a private sector economy focused heavily on commercial fishing. Through Congressional action, Adak currently receives an exclusive allocation of Western AI golden king crab<sup>15</sup> (allocated to a non-profit entity representing Adak) and an allocation of the AI pollock fishery (allocated to the Aleut Corporation). Adak is pursuing a broader range of fisheries for a resident fleet to be able to deliver to Adak Fisheries, the shoreside processor located on Adak.

As a relatively new civilian community, the local fleet in Adak is fairly small, composed primarily of vessels 32' or less in length overall. According to the CFEC, 10 permits were held by 6 permit holders in

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<sup>12</sup>Community information on Atka is from the "Community Profiles for North Pacific Fisheries – Alaska", U.S. Dept. of Commerce, NOAA Fisheries, NMFS, AFSC. December 2005, pp. 297 – 300. Community information on Adak is from the "Comprehensive Baseline Commercial Fishing Community Profiles: Sand Point, Adak, St. Paul, and St. George, Alaska", prepared for the NPRB and NPFMC by EDAW, June 2008.

<sup>13</sup>Letter from L. Prokopeuff, M. Snigaroff, and L. Lokanin, to E. Olson, Council Chair, April 2, 2008.

<sup>14</sup>Larry Cotter, APICDA, personal communication, August 15, 2008.

<sup>15</sup>In addition, fifty percent of the class A IFQ (i.e., IFQ that must be delivered to a processor with matching IPQ) for the Western Aleutian Islands golden king crab fishery must be delivered to a shorebased or stationary floating crab processor west of 174 degrees west. Only two communities, Adak and Atka, are located within this geographic area.

Adak in 2006, and 6 permits were held by 3 permit holders in 2007. Of the six permit holders in Adak in 2006, five had a permit for groundfish, with one also having a halibut/sablefish permit. One permit holder had a salmon permit, which was combined with a crab/other permit. The community profiles document (EDAW, June 2008) reports that at the time of fieldwork in 2007, five small vessels were considered 'local' by residents and actively engaged in, or attempting to be engaged in, local fisheries. Additionally, there are a number of other vessels that spend time in Adak and may have the community name painted on their vessel, but are not considered part of the local fleet by Adak residents, as they have stronger homeporting and fishing effort ties elsewhere.

The following tables show various species or categories of species delivered to the shoreside plant in Adak (Adak Fisheries) during 2002 through mid-October 2008. While cod processing occurred at the physical shoreside plant in Adak starting in 1999, the plant was owned by Norquest Seafoods at the time. In August 2001, the plant changed ownership and has since been owned by Adak Fisheries.<sup>16</sup> A waiver of confidentiality was offered by and obtained from a representative of Adak Fisheries in order to provide the ADF&G fishticket data for this processor.<sup>17</sup> The following tables differentiate harvest in the Aleutian Islands from that in the Bering Sea, and Pacific cod data are provided separately. Harvest amounts from fewer than three vessels cannot be reported due to confidentiality rules. Note that some crab landings that were custom processed at the Adak facility under another processor name are not included, as the confidentiality waiver only applies to Adak Fisheries. Similar information is not provided for the shoreside processor in Atka, due also to confidentiality limitations. However, as stated previously, the two primary species processed in Atka are halibut and sablefish.

Table 4 shows that the majority of the deliveries to Adak Fisheries during this time period have been Pacific cod, ranging from a low in 2005 of 6,438 mt to a high of 12,435 mt in 2007. Note that the State water Pacific cod fishery in the AI was established by the Alaska Board of Fisheries in 2006, and this harvest is broken out for 2006 through 2008. The allocation to the State water Pacific cod fishery is 3% of the BSAI Pacific cod ABC. The State water AI Pacific cod fishery, CDQ Pacific cod, and Federal Pacific cod are all included, in order to provide the total amount of cod processed in Adak in recent years.

Typically, as stated previously, the majority of the BSAI trawl CV Pacific cod harvest occurs in the A season, with additional landings in the B and C seasons. As with most sectors, the A season has been shorter in recent years, the shortest of which has been 2008. Adak Fisheries has testified to the Council at numerous meetings that substantial investments in plant capacity have occurred in recent years in response to the shortened cod seasons.

Note that preliminary data for 2008 are provided through October 11. Adak Fisheries received about 4,407 mt of Federal Pacific cod from 35 unique catcher vessels, and an additional 1,319 mt from 26 vessels in the AI State waters cod fishery, for a total of 5,726 mt in 2008 thus far. Adak Fisheries previously provided the Council with a summary of the 2002 through 2008 A season for trawl CV Pacific cod in Adak. Adak Fisheries stated that early in 2008, the level of harvest was greater than normal, until mothership vessels arrived near Adak about mid-February. Adak asserts that this resulted in a diversion of landings that would have otherwise been processed at the shoreside plant in Adak, and that this reduction in landings continued for the remainder of the A season (about a month) and into the State water AI season. Adak Fisheries representatives have stated that the plant realized a 60 percent reduction in 2008 A season landings compared to 2007.

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<sup>16</sup>While identified in the fisheries data as having one owner since 2001, other company names during this period have been Adak Seafoods or Adak Fisheries Development Corporation. The company is currently identified as Adak Fisheries LLC.

<sup>17</sup>Received by ADF&G, signed by William Tisher, July 30, 2008. This waiver applies to Adak Seafoods, Adak Fisheries Development Corporation, and Adak Fisheries LLC.

**Table 4 Number of vessels delivering and amount (mt) to Adak Fisheries, by species or species group, 2002 – October 2008**

Year	FMP Area	Species	Vessel count	Metric tons
2002	AI	Pacific cod	24	8,498
	AI	crab, golden (brown) king	7	784
	AI	crab, red king	12	77
	AI	other AI groundfish	na	568
	AI	halibut	30	1,004
	BS	halibut	3	19
	WG	halibut	1	conf.
	BS	sablefish (blackcod)	1	conf.
2003	AI	Pacific cod	23	8,706
	AI	crab, golden (brown) king	6	861
	AI	crab, red king	10	65
	AI	halibut	29	610
	AI	other AI groundfish	na	294
	BS	Pacific cod	1	conf.
	BS	other BS groundfish	na	2
	2004	AI	Pacific cod	19
AI		crab, golden (brown) king	7	679
AI		halibut	25	393
		halibut	1	conf.
AI		Atka mackerel	4	<1
AI		POP	4	3
AI		other AI groundfish	na	159
BS		halibut	3	21
BS		BS groundfish	na	2
2005	AI	Pacific cod	16	6,438
	AI	crab, golden (brown) king	2	conf.
	AI	halibut	21	326
	AI	other AI groundfish	na	292
	BS	BS groundfish	na	1
2006	AI	State Waters PCod	12	873
	AI	Pacific cod	17	5,576
	AI	halibut	11	117
	AI	POP	1	conf.
	AI	other AI groundfish	na	971
	WG	halibut	1	conf.
2007	AI	State Waters PCod	31	2,832
	AI	Pacific cod	29	9,603
	AI	halibut	13	187
	AI	crab, golden (brown) king	2	conf.
	AI	POP	2	conf.
	AI	other AI groundfish	na	1,377
2008	AI	State Waters PCod	26	1,319
	AI	Pacific Cod	35	4,263
	BS	Pacific Cod	1	144
	AI	POP	4	258
	AI	Atka Mackerel	1	<1
	AI	Other AI groundfish	na	546

Source: ADF&G Fishtickets, 2002 – 2008. 2008 data are preliminary data, through 10/11/08, from the NMFS catch accounting system and only include groundfish (not halibut or crab). Includes deliveries of any species to Adak Fisheries, including CDQ and AI State water Pacific cod fisheries. Retained catch only. Harvest (mt) is rounded to the nearest metric ton.  
 Note: Small amounts of custom processed crab species that were physically processed in Adak under another plant name are not included.

It may be beneficial to understand more about the existing fleet that delivers to Adak and Atka. Table 5 shows the number of unique vessels that delivered to Adak and Atka during 2002 – 2008, in order to provide an idea of the size of the recent fleet delivering to these two communities. Metric tons (retained catch) landed are provided for Adak, as Adak Fisheries waived confidentiality of these data. However, landings data for Atka are masked. Note that while Table 5 shows deliveries from all FMP areas delivered to these communities, the vast majority is from Areas 541 (EAI) and 542 (CAI).

Table 5 shows that 27 to 70 vessels annually delivered species harvested in the Aleutian Islands to Adak during 2003 – 2008, with those annual harvests ranging from about 7,000 mt (2005) to 14,000 mt (2007). While 2008 data are provided, it is not yet a complete data set (preliminary data are through October 11, 2008, from the NMFS catch accounting system). A few vessels also delivered species harvested in the Bering Sea. Table 5 also shows that 3 to 7 vessels annually delivered species harvested in the AI to Atka. There are also a few catch records for each community without statistical area information.

**Table 5 Number of unique vessels delivering any species to Adak and Atka during 2002 – October 2008, and tons landed**

Year	FMP Area	City	Vessels	Metric tons
2002	AI	Adak	69	10,931
	BS	Adak	4	19
	WG	Adak	1	**
	--	Atka	5	**
	AI	Atka	9	**
2003	AI	Adak	70	10,536
	BS	Adak	3	2
	--	Atka	2	**
	AI	Atka	7	**
2004	AI	Adak	48	10,665
	BS	Adak	5	23
	--	Adak	1	**
	--	Atka	3	**
	AI	Atka	6	**
2005	AI	Adak	34	7,222
	BS	Adak	2	**
	--	Atka	1	**
	AI	Atka	5	**
2006	AI	Adak	27	7,567
	WG	Adak	1	**
	AI	Atka	7	**
2007	AI	Adak	48	14,138
	AI	Atka	3	**
2008 (thru 10/11/08)	AI	Adak	44	6,386
	BS	Adak	1	**
	AI	Atka	1	**

Source: ADF&G Fish tickets, 2002 - 2008. 2008 data are preliminary data, through 10/11/08, from the NMFS catch accounting system and only include groundfish (not halibut or crab).

Includes retained catch from all stat areas. Note that some catch records are missing stat area information.

\*\*Confidential data.

The 'city' column refers to landings processed under the Adak or Atka plant names.

A small amount of crab landings that were custom processed in Adak under another plant name are excluded.

The CFEC data (not provided) also show that there are two Adak vessels delivering to Adak and two Atka vessels delivering to Atka during 2003 – 2007. This means that Adak and Atka are reported as the vessel owner's residence, based on CFEC vessel ownership records. However, 'homeport' information, or vessel owner residence information, may not provide a complete picture of the fleet of vessels delivering to these communities. As mentioned previously, additional vessels can be considered 'local' by residents and actively engaged in local fisheries. Table 6 and Table 7 provide some information on the fleet of vessels that deliver various levels of landings to each of these communities, even though they may not be 'homeported' in these communities.

Table 6 provides a summary of participation patterns during 2003 – 2007. This table shows that of the 116 unique vessels that have made landings in Adak during 2003 – 2007, 5 of those have delivered all five years; 9 have delivered in four of the five years; 17 have delivered in three of the five years; 31 have delivered in two of the five years; and about half (54) have delivered in only one of the five years. These are unique numbers, thus, there are 31 vessels that have delivered in *at least three* of the five years during 2003 – 2007.

**Table 6 Participation pattern of vessels that delivered to Adak and Atka, 2003 - 2007**

Community	Number of vessels that delivered 1, 2, 3, 4, or 5 years during 2003 – 2007					Total # of unique vessels with landings in 2003 - 07
	1 year	2 years	3 years	4 years	All 5 years	
Adak	54	31	17	9	5	116
Atka	2	3	1	3	1	10

Source: ADF&G Fishtickets & CFEC records (retained catch only), 2003 – 2007. Includes catch from all areas. The 'city' column refers to landings processed under the Adak or Atka plant names.

In Atka, there are significantly fewer vessels delivering shoreside. Table 6 shows that of the 10 unique vessels that have reported deliveries to Adak during 2003 – 2007, 1 of those has made landings in Atka all five years; 3 have delivered in four of the five years; 1 has delivered in three of the five years; 3 have delivered in two of the five years; and two have delivered in only one of the five years. Thus, half of the vessels (5) have made landings in Atka in *at least three* of the five years during 2003 – 2007.

Finally, Table 7 shows that of the total number of unique vessels (116) that made landings in Adak during 2003 – 2007, a range of 4 to 10 vessels annually made 10 landings or more; and 9 to 23 vessels annually made 5 or more landings. Vessels with 10 or more annual landings made up 40 percent to 58 percent of the total landings to Adak. Vessels that made at least 5 landings in a given year comprised the majority of the annual catch – from 62 percent in 2007 to a high of 90 percent in 2003. In any one year, a low of 27 vessels and a high of 70 vessels made landings in Adak during 2003 – 2007.

In Atka, there were significantly fewer vessels delivering overall; ten unique vessels delivered shoreside during 2003 – 2007. Two to 6 vessels made at least 10 annual landings in 2003 – 2005, and 1 to 7 vessels made at least 5 landings annually. Vessels that made at least 5 landings in a given year comprised the vast majority of the annual catch – more than 95 percent in most years. In any one year, a low of 3 vessels and a high of 7 vessels delivered shoreside to Atka during 2003 – 2007.

**Table 7 Number of vessels with at least one, five, or ten landings in Adak and Atka annually and percent of harvest, 2003 - 2007**

ADAK	Number of vessels with at least one landing per year	% of harvest	Number of vessels with at least 5 landings per year	% of harvest	Number of vessels with at least 10 landings per year	% of harvest
2003	70	100%	23	90%	10	58%
2004	54	100%	19	80%	4	36%
2005	35	100%	9	74%	4	47%
2006	27	100%	12	75%	6	54%
2007	48	100%	16	62%	9	40%
ATKA	Number of vessels with at least one landing per year	% of harvest	Number of vessels with at least 5 landings per year	% of harvest	Number of vessels with at least 10 landings per year	% of harvest
2003	7	100%	7	100%	6	99%
2004	6	100%	6	100%	5	59%
2005	5	100%	4	99%	2	39%
2006	7	100%	5	95%	0	0%
2007	3	100%	1	1%	0	0%

Source: ADF&G Fish tickets, 2003 - 2007 (retained catch only) and CFEC records. Includes catch from all areas.

## Review and clarification of the proposed options

There are several overlapping options proposed to establish processing sideboard limits on Pacific cod harvested in Areas 541 and 542. These were approved in the June 2008 Council motion:

### Component 1. Options for establishing processing sideboards:

#### Option 1. Sideboard limit

Limit the amount of Pacific cod harvested in Areas 541 or 542 that may be delivered to the affected federally permitted processing vessels by other vessels to:

- Suboption 1. the greatest amount delivered within the range of qualifying years
- Suboption 2. the average annual amount delivered within the range of qualifying years

#### Option 2. Sideboard date

Limit the date that the affected Federally permitted processing vessels may begin taking deliveries of Pacific cod harvested in Areas 541 or 542 to:

- Suboption 1. the earliest date a delivery was taken in any qualifying year
- Suboption 2. the average earliest date a delivery was accepted in any year, across all qualifying years

### Component 2. Options for qualifying years:

#### Option 1. Recent history

- Suboption 1. 2005 – 2007 (3-year period prior to 2008)
- Suboption 2. 2003 – 2007 (5-year period prior to 2008)

#### Option 2. Years prior to implementation of the respective rationalization program

- Suboption 1. 3-year period prior to program implementation
- Suboption 2. 5-year period prior to program implementation

### Component 3. Options for calculating and applying sideboards:

#### Option 1. Single sideboard

All affected vessels that accept deliveries of Pacific cod harvested in Areas 541 or 542 would be combined under a single sideboard.

#### Option 2. Program-specific sideboards

A separate sideboard would be established and managed for each of the three groups of rationalized vessels (*i.e.*, AFA, BSAI crab, BSAI Amendment 80) that accept deliveries in of Pacific cod harvested in Areas 541 or 542.

There are several questions surrounding the options that need to be addressed, as well as some assumptions that may be well understood but not explicit in the language of the options. These are summarized in the following bullets. The first questions pertain to how the sideboards are structured:

- Staff assumes that CDQ harvests of Pacific cod would not count toward the Pacific cod processing sideboard.
- Staff interprets all threshold amounts specified in the above options as the actual amounts delivered. Retained catch (*i.e.*, actual deliveries) is used, instead of total catch as the basis for estimations, as it seems the appropriate approach to quantifying deliveries.

- Staff currently assumes that Component 1, Option 1, Suboption 1 means the greatest annual amount delivered within 2005 – 2007 (not the total amount aggregated across all three years).
- All sideboard limits to date have been expressed as percentages of an ITAC or allocation. A percentage approach results in a sideboard that fluctuates with the TAC. The options propose a processing sideboard ‘amount’. Staff assumes that this amount would be based on the amount of Area 541 and 542 cod delivered to the rationalized processing sectors during the qualifying years, and then converted to a percentage of the total CV catch of Pacific cod in the BSAI (excluding AI State waters and CDQ). This is because the sideboard percentage ultimately would be multiplied by the combined BSAI Pacific cod CV allocations in order to determine the annual processing limit, as there is no AI-specific Pacific cod allocation. The Council should clarify if this assumption is incorrect.
- Staff currently assumes that the sideboard would be applied to the total combined Pacific cod allocations to CVs each year. (As opposed to being applied to each individual gear-specific BSAI Pacific cod CV allocation).<sup>18</sup> The Council should clarify if this assumption is incorrect.
- The Council should confirm that the Pacific cod processing sideboards are to be established in the aggregate for Areas 541 and 542. In effect, under Component 3, Option 1, there would be one processing sideboard for all Pacific cod harvested in Areas 541 and 542 (combined) that would apply to all three rationalized sectors. Under Component 3, Option 2, there would be a total of three processing sideboards: one processing sideboard for all Pacific cod harvested in Areas 541 and 542 (combined) that would apply to each of the three rationalized sectors. This is the current staff assumption.

The following questions pertain to which sector(s) the sideboard is applied:

- Staff assumes that the processing sideboard would apply to all eligible Amendment 80 CPs, whether they are in a cooperative or the Amendment 80 limited access fishery.

The central idea of this action is that rationalization programs, including Amendment 80, created surplus processing capacity by allowing for consolidation of a rationalized processing sector. Since Amendment 80 CPs that do not join an Amendment 80 cooperative can participate in the Amendment 80 limited access fishery, those vessels will continue to compete with each other. The final rule notes that participants in the Amendment 80 limited access fishery will not realize the same potential benefits from consolidation and coordination and will not receive an exclusive harvest privilege that accrues to members of an Amendment 80 cooperative.<sup>19</sup> NMFS manages the Amendment 80 limited access fishery similar to the way the fisheries were managed prior to implementation of the program. Thus, it spurs the question as to whether the Council intends to apply the Pacific cod processing sideboard to all eligible Amendment 80 CPs, or to limit its application to Amendment 80 CPs participating in cooperatives.

Eligible Amendment 80 quota share holders can form a cooperative with other Amendment 80 quota share holders on an annual basis, provided they meet specific criteria. In 2008, seven Amendment 80 vessels chose not to participate in a cooperative and instead participated in the Amendment 80 limited access fishery. Six of these vessels are owned by the same company. Even if Amendment 80 vessels choose not to participate in a cooperative, there is the potential for such a limited universe of vessels in the Amendment 80 limited access fishery that it is possible to gain some benefits similar to

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<sup>18</sup>The CV sector allocations are: hook-and-line CV  $\geq 60'$ ; pot CV  $\geq 60'$ ; hook-and-line or pot CV  $< 60'$ ; trawl CV; and jig vessels. Note that the jig allocation includes both CV and CP vessels using jig gear, but very few jig CPs have operated.

<sup>19</sup>NMFS assigns the Amendment 80 limited access fishery the amount of the Amendment 80 sector's allocation of Amendment 80 species ITAC and crab and halibut PSC that remains after allocation to all of the Amendment 80 cooperatives.

rationalization. The limited number of participants facilitates the ability to create harvest agreements with one another. In addition, one company may own all of the vessels participating in the Amendment 80 limited access fishery, or there may only be one or two vessels that focus on a particular species (e.g., Pacific cod), thus reducing competition that would otherwise be associated with an (unrationalized) limited access fishery.

For these reasons, absent further Council direction, staff assumes that the processing sideboard would apply to all eligible Amendment 80 CPs, as the current language of the motion does not discern between those in cooperatives and those in the Amendment 80 limited access fishery.

- Are the sideboards intended to apply to vessels only acting as motherships, or also to vessels acting as stationary floating processors?

It is necessary for the Council to clarify whether the sideboard would apply only to vessels acting as motherships, or also to vessels potentially acting as stationary floating processors. While it may be unlikely that some vessels would act as stationary floating processors, the potential remains, and the implementing regulations would need to clearly articulate the vessels to which the sideboard applies.

Federal regulations currently define a mothership as “a vessel that receives and processes groundfish from other vessels” (50 CFR 679.2).<sup>20</sup> The same regulations define a stationary floating processor as “a vessel of the United States operating as a processor in Alaska State waters that remains anchored or otherwise remains stationary in a single geographic location while receiving or processing groundfish harvested in the GOA or BSAI.” Thus, one interpretation is that stationary floaters are a subset of motherships that operate in State waters in a single geographic location, and thus are included in the definition of mothership, even if the common understanding of a ‘true’ mothership is that it is a mobile floating processor.

Of the three rationalized processing sectors at issue, only vessels in the crab sector have been identified in the data acting as stationary floating processors at any time during the years under consideration (1994 – 2007).<sup>21</sup> With the exception of 2001, during 2000 through 2007, one to two crab vessels acted as stationary floating processors each year (three unique vessels). In 2008, two crab vessels acted as stationary floaters.

If it is not the Council’s intent to include vessels acting as stationary floating processors, it should clarify the sector to which the sideboard should apply. As currently stated, staff assumes that the proposed cod processing sideboard would apply to all of the affected rationalized vessels (AFA, crab processing vessels that contributed to C. opilio PQS, and Amendment 80 CPs) receiving and processing groundfish from other vessels harvesting Pacific cod in Areas 541 and 542, regardless of whether they were acting as a ‘true’ mothership or a stationary floating processor.

The last question pertains to the scope of the sideboards:

- Does the proposed Pacific cod processing sideboard apply to Pacific cod harvested in the Eastern and Central AI from all gear types?

The language of the motion does not specify whether the sideboard limits are gear specific. At this point, staff assumes that the motion proposes to limit CV deliveries of any gear type (hook-and-line, pot, jig,

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<sup>20</sup>A second part of the definition states: “With respect to subpart E of this part, a processor vessel that receives and processes groundfish from other vessels and is not used for, or equipped to be used for, catching groundfish.” Subpart E refers to the regulations implementing the Groundfish Observer Program.

<sup>21</sup>NMFS catch accounting system and personal communication, M. Furuness, October 2008.

and trawl) to the rationalized processing sectors at issue. As stated in a previous bullet, staff calculated the sideboard amount based on the amount of Area 541 and 542 cod delivered by catcher vessels to the rationalized processing sectors during the qualifying years, converted to a percentage of the total CV catch of Pacific cod in the BSAI.

### Preliminary analysis of options

Generally, the options to establish sideboards focus on the amount of Pacific cod harvested in Areas 541 and 542 that have been delivered by catcher vessels to the AFA, crab processing vessels, and Amendment 80 sectors in recent years or the years prior to the implementation of their respective rationalization programs. Table 8 shows the unique number of processors receiving deliveries of Pacific cod harvested in Areas 541 and 542 in 1994 through October 11, 2008. With the exception of 2008, these are the qualifying years covered under the options in Component 2. The processing sectors shown are: AFA (CPs and motherships), crab (CPs and floaters), Amendment 80 (CPs acting as motherships/floaters), ‘other’ mothership/floaters, and shoreside plants. If a sector is not shown under a particular year, that means there was no activity for that sector in that year (i.e., no sectors are lumped together except where noted).

**Table 8 Number of processing vessels or shoreside plants receiving Pacific cod harvested in the Central and Eastern AI, 1994 – October 2008**

Year	Sector	Tons	% of total	Vessel count	Processor count
1994	Other Mothership	conf.	-		1
	Shoreside	conf.	-	16	3
	Total	78	100%		
1995	Other Mothership	conf.	-		1
	Shoreside	conf.	-	33	7
	Total	303	100%		
1996	AFA	1,440	35%		3
	Crab	conf.	-		2
	Other Mothership	conf.	-		2
	Shoreside	539	13%	22	6
	Total	4,082			
1997	AFA	2,492	44%		3
	Other Mothership	2,973	52%		5
	Shoreside	212	4%	17	7
	Total	5,676			
1998	AFA	1,213	21%		5
	Other Mothership	4,433	78%		7
	Shoreside	44	1%	7	4
	Total	5,690			
1999	AFA	5,304	56%		5
	Am80	conf.	-		2
	Crab	conf.	-		1
	Other Mothership	273	3%		3
	Shoreside	3,413	36%	45	7
Total	9,430				
2000	AFA	conf.	-		1
	Crab	4,613	32%		3
	Other Mothership	conf.	-		2
	Shoreside	8,104	57%	77	11
	Total	14,314			

**Table 8 continued.**

Year	Sector	Tons		Vessel count	Processor count
2001	AFA	conf.	-	2	1
	Crab	conf.	-	9	1
	Other Mothership	conf.	-	2	1
	Shoreside	3,831	51%	46	8
	Total	7,520			
2002	AFA	conf.	-	2	1
	Crab	conf.	-	7	2
	Other Mothership	conf.	-	1	1
	Shoreside	9,828	65%	32	5
	Total	15,140			
2003	AFA	conf.	-	3	1
	Crab	conf.	-	15	2
	Shoreside	9,019	53%	32	6
	Total	17,031			
2004	AFA	conf.	-	2	1
	Am80	conf.	-	1	1
	Crab	conf.	-	9	2
	Shoreside	9,497	70%	22	3
	Total	13,657			
2005	AFA	conf.	-	2	1
	Crab	conf.	-	7	2
	Shoreside	6,481	82%	19	5
	Total	7,939			
2006	AFA	conf.	-	2	1
	Crab	conf.	-	4	2
	Other Mothership			2	1
	Shoreside	5,783*	85%*	27	6
	Total	6,818			
2007	AFA	conf.	-	2	1
	Am80	conf.	-	3	1
	Crab	conf.	-	8	2
	Other Mothership			1	1
	Shoreside	9,900*	87%*	36	6
	Total	11,429			
2008 (thru 10/11/08)	AFA	conf.		3	1
	Am80	conf.	-	5	2
	Crab	5,468		15	3
	Other Mothership			1	1
	Shoreside	4,754*	42%*	55	7
	Total	11,268			

Source: ADF&G Fish Tickets for shoreside deliveries 1994-2007 and mothership deliveries 2001-2007, & NMFS Blend data for mothership deliveries 1994-2000. Retained catch only. 2008 data are preliminary, from NMFS catch accounting data through October 11, 2008. All data exclude CDQ harvest and State AI cod fishery harvest.

Note: Vessel and processor counts show number of unique vessels delivering and processors receiving Pacific cod harvested from Areas 541 or 542, respectively. One processing vessel in 2008 is part of both the AFA and Am. 80 sectors. It is counted in this table under the Am. 80 sector.

Note: Vessel counts are not available for mothership deliveries in the Blend data (1994 – 2000).

Conf. = confidential data.

\*2006, 2007, and 2008 data are combined for the 'other mothership' and shoreside sectors due to confidentiality issues when combined with Table 9 or discussed in the text.

Note: Within the 'shoreside' sector, there is one stationary floating processor in the data (1999 and 2000).

Note that the harvest data in Table 8 are confidential if there are not more than 3 processors or 3 vessels in any one category, thus, in many years the harvest data cannot be shown separately for each sector. CDQ and AI State water Pacific cod harvest are not included, as these fisheries are not affected by the proposed action. Note also that the data represent retained catch, and 2008 data (through October 11) are considered preliminary.

During 1996 – 1999, the AFA sector had 3 to 5 processing vessels receiving cod deliveries each year. These deliveries were made to 6 unique vessels (5 AFA CPs and 1 AFA mothership). Since 2000, only one AFA CP has been taking cod deliveries every year from Areas 541 and 542.

The crab sector had 1 to 3 processing vessels receiving cod deliveries during 1996 – 2001 (six unique vessels), and then two vessels each year starting in 2002 (three unique vessels total, and all are floaters), with the exception of 2008. In 2008, three crab processors received cod deliveries from Areas 541 and 542. Note that some of the crab processing vessels aggregated in Table 8 have acted as stationary floating processors. With the exception of 2001, during 2000 through 2008, one to two crab floaters have acted as stationary floating processors each year (four unique vessels). No other stationary floating processors were identified in the data for the other two rationalized sectors (AFA and Amendment 80) at issue.

The Amendment 80 sector had two CPs receive some cod in 1999, one CP received a negligible amount of cod in 2004, and that same vessel received cod deliveries in 2007 and 2008. One other Amendment 80 CP received deliveries in 2008, for a total of 2. Harvest data for this sector cannot be shown in any year, due to the small number of participants.

There were several (a maximum of 7 in one year) ‘other’ motherships that received cod deliveries in the earlier years (1994 – 2001) that were not part of any of the rationalized sectors at issue, but note that the majority of these were ‘AFA 9’ vessels. The ‘AFA 9’ sector refers to the nine vessels whose claims to catch history and any endorsements or permits for eligibility in any U.S. fisheries in the EEZ were extinguished under Section 209 of the AFA. Thus, the last year these vessels participated in this activity is 1998, and they cannot participate in the future. During 1995 to 1998, all but two of the vessels in the ‘other mothership’ category are AFA 9 vessels. Note also that there were no deliveries to ‘other’ motherships’ in 2003 through 2005. Since 2006, one ‘other’ mothership has received cod harvested each year from Areas 541 and/or 542 (one unique vessel).

Several shoreside processor companies received deliveries of Pacific cod in Areas 541 or 542 during 1994 – 2008, but most frequently deliveries were made to nine processors located in Dutch Harbor, Akutan, Adak, King Cove, Chignik and Sand Point.<sup>22</sup> The data show that some of these processors received relatively low amounts (<1 mt), which may represent incidental catch when delivering another target species in some cases. In any one year, the minimum number of shoreside processors was 3 (1994 and 2004), and the maximum was 11 (2000). The percentage of Pacific cod harvested in Areas 541 and 542 delivered shoreside increased dramatically starting in 1999, when the processing plant opened in Adak. In 2008 (through mid-October), seven shoreside processors received cod deliveries harvested from the Central and/or Eastern AI. However, the majority of cod harvested from these areas in 2008 thus far has been delivered to motherships or floaters (58%).

Table 9 shows the total retained catcher vessel harvest of Pacific cod harvested in Areas 541 and 542, by the processing sector to which the fish were delivered, during the most recent five complete years of data (2003 through 2007). These data are based on the same data in Table 8, only the mothership/floater processing category combines all motherships and floating processors (including CPs acting as motherships) in the three rationalization programs, due to confidentiality limitations. Harvest attributed to

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<sup>22</sup>Note also that within the ‘shoreside’ sector category, there is one stationary floating processor in 1999 and 2000.

‘shoreside landings’ includes cod delivered shoreside as well as cod delivered to the one ‘other mothership’ that participated in 2006 and 2007 that is not part of a rationalization program. This grouping was necessary in order to preserve confidentiality and separate deliveries to the AFA/crab processors/Am. 80 sectors. Note that deliveries to this mothership made up a small percentage of the total. CDQ and AI State water Pacific cod harvest are not included, as these fisheries are not affected by the proposed action. It was difficult to show data prior to 2003 in Table 9, due to the confidentiality issues when combined with Table 8, and the potential for providing misleading data due to aggregation. However, percent harvest by sector is provided in Table 8 where possible.

**Table 9 Amount of Pacific cod harvested in the Central and Eastern AI, by processing sector, 2003 - 2007**

YEAR	AFA/Crab/Am. 80 mothership/floater landings in Areas 541 and 542			Shoreside landings in Area 541 and 542 <sup>1</sup>			CV cod landings in Areas 541 and 542	Total CV cod catch in BSAI
	mt	% of AI	% of BSAI	mt	% of AI	% of BSAI		
2003	8,013	47.0%	12.2%	9,019	53.0%	13.7%	17,031	65,936
2004	4,160	30.5%	7.4%	9,497	69.5%	16.9%	13,657	56,055
2005	1,458	18.4%	2.9%	6,481	81.6%	12.7%	7,939	50,921
2006	1,035	15.2%	2.0%	5,783	84.8%	11.4%	6,818	50,600
2007	1,529	13.4%	3.2%	9,900	86.6%	21.0%	11,429	47,220
Average 2003 - 07	3,239	28.5%	6.0%	8,136	71.5%	15.0%	11,375	54,146

Source: ADF&G fishtickets, 2003 – 2007, retained catch only, except for the last column. Data for total CV cod catch in BSAI is total catch (retained & discarded) from the NMFS catch accounting database. Excludes CDQ harvest and State AI cod fishery harvest.

<sup>1</sup>Harvest attributed to ‘shoreside landings’ includes deliveries to one ‘other’ mothership in 2006 and 2007 that is not part of a rationalization program, in order to preserve confidentiality and separate deliveries to the AFA/Crab rationalization/Am. 80 sectors.

While Table 9 cannot provide data on an individual sector level, it does provide a summary of how much of the Pacific cod harvest from Areas 541 and 542 is being delivered shoreside versus to CPs/motherships/floaters. Table 9 shows that the shoreside sector has received an increasing share of the Eastern and Central AI Pacific cod deliveries during this time period, from 53% in 2003 to almost 87% in 2007, with an average share of about 72%. The rationalized mothership/floater sector received a high of 47% in 2003 and a low of 13% in 2007, with an average share of about 29%.

The “percent of BSAI” column shows the retained harvest by each sector in Areas 541 and 542 as a percentage of the total CV Pacific cod catch in the BSAI. The processing sideboards are calculated as a percentage of the total CV Pacific cod catch in the BSAI in this paper, since it is assumed they would be applied annually to the combined BSAI CV Pacific cod allocations (which account for all catch).<sup>23</sup> Thus, retained Area 541/542 catch divided by total BSAI catch appears to be the most appropriate approach. The Council should clarify if a different method is desired.

The vast majority of the shoreside deliveries shown in Table 9 have been to Adak Fisheries (see Table 10 below). Note that the preliminary 2008 harvest data provided in Table 10 are through October 11, 2008, from the NMFS catch accounting database. The remainder of the table (2003 – 2007) is retained harvest from ADF&G fishtickets. The ‘average’ only includes 2003 – 2007, as these data are provided from the same source. Note that State AI cod landings are excluded from this table. Pacific cod harvested in the Central and Eastern AI from the AI State managed Pacific cod fishery represents additional Pacific cod delivered to Adak Fisheries. State water cod landings to Adak Fisheries from these areas are reported as: 2006 – 873 mt; 2007 – 2,832 mt; and 2008 (through October 11) – 1,318 mt.

<sup>23</sup>Note that some, but not all, of the Pacific cod CV sectors have a separate incidental catch allowance. Hook-and-line and pot gear (CP and CV sectors combined) have a 500 mt annual ICA. The Council would need to clarify whether the sideboard should be applied to the combined BSAI CV Pacific cod allocation plus the ICA or without the ICA. The retained catch data used in the tables includes all targets, so it includes incidental catch.

**Table 10 Amount of Pacific cod harvested in the Central and Eastern AI and delivered to Adak Fisheries, 2003 – 2007**

Year	Adak landings		Total CV cod landings
	mt	% of total	
2003	8,706	51%	17,031
2004	9,428	69%	13,657
2005	6,435	81%	7,939
2006	5,576	82%	6,818
2007	9,603	84%	11,429
2008*	4,263*	38%	11,268*
2003 - 07 Average	7,950	70%	11,375

Source: ADF&G fishtickets, 2003 – 2007. Retained catch only.

\*2008 data are preliminary through 10/11/08, from NMFS catch accounting database.

Excludes CDQ harvest and State AI cod fishery harvest.

Note: A confidentiality waiver was procured from Adak Fisheries in order to provide these data.

In 2008, the BSAI Pacific cod trawl CV fishery opened on January 20. The directed fishery was closed on March 6 and the fishery was put on bycatch status. The B season opened on April 1 and was placed on bycatch status on April 4. The C season opened on June 10. **In 2008, the shoreside processing share is reduced compared to the 2003 – 2007 average of 72% (see Table 9). Through mid-October 2008, the majority of the cod harvested from the Federal TAC in Area 541 or 542 has been delivered to the mothership/floater sector (about 58%) compared to the shoreside sector (42%) (see Table 8).** Note that including Pacific cod harvest in Areas 541 and 542 from the State managed AI fishery (through October 11, 2008) changes those overall percentages by less than one percentage point. About 3,200 mt of Pacific cod harvested by catcher vessels in Areas 541 and 542 from the State AI fishery were reported through 2008; motherships/floaters/CPs from each rationalized sector and the ‘other mothership’ sector received deliveries from this fishery. The majority of the shoreside deliveries from the State fishery were to Adak.

The amount of harvest delivered to each individual rationalized sector cannot be provided due to confidentiality issues, but note that Table 8 shows that one AFA CP, two Am. 80 CPs, three crab processing vessels, and one ‘other mothership’, received cod deliveries totaling about 6,514 mt (58%) thus far in 2008. The shoreside sector received about 4,754 mt (42%), with the great majority of that harvest delivered to Adak.

The preliminary results of the options are based on the data in Table 8 and Table 9 (excluding 2008). ADF&G fish tickets were used for Pacific cod harvest data because processors are identified on nearly all fish ticket records. The NMFS Blend data identifies the catcher vessel processing sector (mothership or shoreside) of all processors, but is missing some data on the individual processing vessel or facility. Fish ticket data prior to 2001 was supplemented with Blend mothership data, because motherships were not required to fill out fish tickets until 2000. When Blend mothership data was used to supplement the fish ticket data, the individual processing vessel information was researched to ensure that landings were assigned to the correct sector for the purposes of this action.

Note that Component 3 includes two options for applying the cod processing sideboard: Suboption 1) a single sideboard that applies to all affected vessels that accept deliveries of Pacific cod harvested in Areas 541 or 542; or Suboption 2) program-specific sideboards that would be established and managed for each of the three groups of rationalized vessels (*i.e.*, AFA, BSAI crab, BSAI Amendment 80) that accept deliveries in of Pacific cod harvested in Areas 541 or 542. **Due to the data confidentiality issues shown above, the results of the program-specific sideboards under Suboption 2 cannot be provided. Thus,**

**the remainder of this section addresses the results of the options for a combined program sideboard only.**

#### Component 1, Option 1: Sideboard limit

Under Component 1, Option 1, the sideboard limit is established as: Suboption 1) the greatest amount delivered within the range of qualifying years; or Suboption 2) the average annual amount delivered within the range of qualifying years. **Staff currently assumes that the sideboard amount is calculated based on the proposed qualifying years and then converted to a percentage of the total CV catch of Pacific cod in the BSAI (excluding AI State waters cod fishery and CDQ).** This is because, as there is not an AI area specific TAC for Pacific cod, the sideboard would be applied to the non-CDQ BSAI Pacific cod CV TAC on an annual basis. (The Council also needs to clarify how to apply that sideboard, specifically, whether the intent is that that percentage be applied as the sideboard on each of the five individual BSAI Pacific cod CV allocations, or whether it should be applied as one sideboard on the combined BSAI Pacific cod CV allocations. Recall that the five CV allocations for BSAI Pacific cod make up a combined 34.1% of the total non-CDQ BSAI Pacific cod TAC.)

The combination of Component 1 (sideboard limit) and Component 2 (qualifying years) results in several potential options. For example, Component 2 has four sets of qualifying years. Option 1 is based on recent history (2005 – 2007 or 2003 – 2007). Option 2 is based on the 3 or 5 years prior to each specific rationalization program, the intent being to base the sideboard on the level of cod processing that each sector was doing prior to the implementation of their rationalized program and the ability to consolidate processing. In effect, Option 2 results in the following qualifying years for the vessels participating in each program:

Suboption 1. 3-year period prior to program implementation

AFA: 1996 – 1998

Crab: 2002 – 2004

Am. 80: 2005 – 2007

Suboption 2. 5-year period prior to program implementation

AFA: 1994 – 1998

Crab: 2000 – 2004

Am. 80: 2003 – 2007

Due to the potential combinations of options under Components 1 and 2, the suite of suboptions proposed under Option 1 to establish the sideboard limits is as follows:

#### Option 1. Sideboard limit

Limit the amount of Pacific cod harvested in Areas 541 or 542 that may be delivered to the affected federally permitted processing vessels by other vessels to:

- Suboption 1. a. the greatest amount delivered within 2005 – 2007
- b. the greatest amount delivered within 2003 – 2007
- c. the greatest amount delivered within (AFA: 1996 – 1998; Crab: 2002 – 2004; and Am. 80: 2005 – 2007)
- d. the greatest amount delivered within (AFA: 1994 – 1998; Crab: 2000 – 2004; and Am. 80: 2003 – 2007)
  
- Suboption 2. a. the average annual amount delivered within 2005 – 2007
- b. the average annual amount delivered within 2003 – 2007

- c. the average annual amount delivered within (AFA: 1996 – 1998; Crab: 2002 – 2004; and Am. 80: 2005 – 2007)
- d. the average annual amount delivered within (AFA: 1994 – 1998; Crab: 2000 – 2004; and Am. 80: 2003 – 2007)

**The processing sideboards resulting from the suboptions above are calculated below in Table 11.** All of the steps to calculate the sideboard percentages cannot be shown due to confidential data. For all calculations, the numerator of the sideboard calculation is retained CV catch only in Areas 541 and 542, and the denominator is the corresponding total Pacific cod BSAI CV catch in those years. **Note that in combination with Component 3, there are actually sixteen proposed suboptions for sideboards.** This is because the eight suboptions above must be calculated for a single sideboard (Component 3, Option 1) and program-specific sideboards (Component 3, Option 2). As stated previously, the results of the program-specific sideboards are not provided due to confidentiality issues.

**Suboption 1 is a ‘best year’ option.** For Suboptions 1a and 1b, the analyst selected the best year within the suite of qualifying years shown for the combined three rationalized sectors, and the denominator is the corresponding total Pacific cod BSAI CV catch in those years. Thus, Suboption 1a and 1b are relatively straightforward (and shown previously in Table 9). Overall, Suboption b results in a higher sideboard than Suboption a; Suboption b includes the earlier years, in which the relative percentage of harvest delivered to motherships and floaters was greater.

For Suboption 1c and 1d, the suite of qualifying years is different for each rationalized sector. The analyst used the best year of the suite for each of the rationalized sectors, and summed those harvests. For example, for Suboption 1c, the AFA sector’s best year is 1997; the crab sector’s best year is 2003, and the Amendment 80 sector’s best year is 2007. Those harvests were summed and divided into the corresponding sum of the total BSAI CV Pacific cod harvest during 1997, 2003, and 2007. Because the best years for each rationalized sector do not change under Suboption c or Suboption d, the resulting sideboards are the same.

**Suboption 2 is an ‘average annual amount’ option.** For Suboptions 2a and 2b, the analyst used the average annual amount within the range of qualifying years for the combined three rationalized sectors. Thus, Suboptions 2a and 2b are also relatively straightforward (Suboption 2b is shown previously in Table 9). Overall, Suboption b results in a higher sideboard than Suboption a. This is because Suboption b includes the earlier years, in which the relative percentage of harvest delivered to motherships and floaters was greater.

For Suboption 2c and 2d, the suite of qualifying years is different for each rationalized sector. The analyst used the average of the three and five years prior to the implementation of each rationalization program for Suboption 2c and 2d, respectively. Those averages were summed and divided into the sum of the averages of the total BSAI CV Pacific cod harvest during those corresponding years. Because there is little difference in the average harvest during the three-year versus the five-year period, the sideboards do not change substantially under Suboption c or Suboption d. Suboption 2d results in a slightly lower sideboard than Suboption 2c, since it averages in several very early years in which there was very little harvest delivered to the AFA and Amendment 80 sectors.

**Table 11 Sideboards resulting from Component 1, Option 1, and Component 2**

Processing sideboard limit options	Sideboard (as % of total combined CV Pacific cod allocations)	Sideboard in 2008 mt <sup>1</sup>
<b>Suboption 1. greatest amt delivered within...</b>		
a. 2005 - 2007	3.2%	1,664
b. 2003 – 2007	12.2%	6,342
c. 3 yrs prior to program implementation	4.4%	2,287
d. 5 yrs prior to program implementation	4.4%	2,287
<b>Suboption 2. average amt delivered within...</b>		
a. 2005 - 2007	2.7%	1,404
b. 2003 – 2007	6.0%	3,119
c. 3 yrs prior to program implementation	2.8%	1,456
d. 5 yrs prior to program implementation	2.4%	1,248

Source: Numerator of sideboard calculation is retained CV catch only in Areas 541 & 542. ADFG Fishtickets for shoreside deliveries 1994-2007 and mothership deliveries 2001-2007, & NMFS Blend data for mothership deliveries 1994-2000. Denominator of calculation is total BSAI CV catch from NMFS Blend/catch accounting database.

All data exclude CDQ harvest and State AI cod fishery harvest.

<sup>1</sup>These estimates are based on the 2008 BSAI Pacific cod ITAC of 152,453 mt. The total CV Pacific cod portion of the ITAC is 34.1% or about 51,986 mt.

**Component 1, Option 2: Sideboard date**

Component 1, Option 2 proposes a different method by which to establish a limit on offshore processing. Staff assumes that Option 2 could be selected in tandem with Option 1 or the Council could select one without the other. In effect, the Council could select a processing sideboard; or a date prior to which the rationalized sectors could not receive deliveries; or both. Staff also assumes that Suboption 2 should be modified as shown below. The Council should revise the wording accordingly if this is correct.

*Suboption 2. the average earliest date a delivery was accepted in ~~any~~ **each** year, across all qualifying years*

Due to the potential combinations of options under Components 1, 2, and 3, the suite of suboptions under Option 2 is as follows:

**Option 2. Sideboard date**

Limit the date that the affected Federally permitted processing vessels may begin taking deliveries of Pacific cod harvested in Areas 541 or 542 to:

- Suboption 1. a. the earliest date a delivery was taken in 2005 – 2007

- b. the earliest date a delivery was taken in 2003 – 2007
- c. the earliest date a delivery was taken in (AFA: 1996 – 1998; Crab: 2002 – 2004; and Am. 80: 2005 – 2007).<sup>24</sup>
- d. the earliest date a delivery was taken in (AFA: 1994 – 1998; Crab: 2000 – 2004; and Am. 80: 2003 – 2007)

- Suboption 2.
  - a. the average earliest date a delivery was accepted within 2005 – 2007
  - b. the average earliest date a delivery was accepted within 2003 – 2007
  - c. the average earliest date a delivery was accepted within (AFA: 1996 – 1998; Crab: 2002 – 2004; and Am. 80: 2005 – 2007)<sup>25</sup>
  - d. the average earliest date a delivery was accepted within (AFA: 1994 – 1998; Crab: 2000 – 2004; and Am. 80: 2003 – 2007)

**Note that in combination with Component 3, there are sixteen proposed suboptions for sideboard dates.** This is because the above eight suboptions must be calculated for a single sideboard (Component 3, Option 1) and program-specific sideboards (Component 3, Option 2).

The earliest landing dates for all of the qualifying years are provided in Table 12 below; these dates are used to calculate Option 2. This table shows the earliest landing dates for Pacific cod harvested by catcher vessels in Area 541 or 542, by processing sector, from 1994 through 2008. Generally, over this time period, the landing dates for the shoreside sector have moved from early March to early February, with a few exceptions. Similarly, landing dates for catcher vessels delivering to AFA processing vessels have generally moved from early March to about mid-February during this time period. The only Amendment 80 deliveries were made in March, and deliveries to crab processing vessels have generally ranged from mid-February to mid-March, with the earliest dates being in the most recent years.

While 2008 is not a qualifying year, the earliest delivery dates in 2008 are similar to recent years, with the possible exception of the crab and shoreside sectors. In 2008, the earliest date each sector received deliveries of Pacific cod harvested in Area 541 or 542 was: AFA – February 16; Amendment 80 – March 1; Crab rationalization – February 9; ‘Other mothership’ – July 5, and Shoreside – January 12.

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<sup>24</sup>For a single sideboard (Component 3, Option 1), it is assumed that Suboption 1c and 1d mean to use the earliest date a delivery was taken by any of the combined sectors in any of the years identified (i.e., the earliest date by all years reviewed).

<sup>25</sup>For a single sideboard (Component 3, Option 1), it is assumed that Suboption 2c and 2d mean to use the average earliest date a delivery was taken by the combined sectors across all of the years identified (i.e., an average of the average dates).

**Table 12 Earliest landing date for Pacific cod harvested by catcher vessels in Area 541 or 542, by processing sector, 1994 - 2007**

Year	AFA	Am80	Crab	Other Mothership	Shoreside
1994	--	--	--	19-Mar	5-Mar
1995	--	--	--	11-Mar	2-Mar
1996	9-Mar	--	23-Mar	2-Mar	8-Mar
1997	1-Mar	--	--	1-Mar	26-Feb
1998	14-Mar	--	--	28-Feb	9-Mar
1999*	6-Mar	20-Mar	25-Sep	8-May	24-Feb
2000	26-Feb	--	19-Feb	19-Feb	10-Jan
2001	17-Feb	--	19-Mar	15-Apr	21-Jan
2002	16-Feb	--	13-Mar	--	4-Feb
2003	1-Feb	--	28-Feb	--	7-Feb
2004	7-Feb	24-Mar	4-Mar	--	12-Feb
2005**	12-Feb	--	3-Mar	--	9-Feb
2006	18-Feb	--	27-Feb	25-Sep	6-Feb
2007	10-Feb	9-Mar	7-Mar	15-Jan	25-Jan
2008	16-Feb	1-Mar	9-Feb	5-Jul	12-Jan

Source: ADFG Fishtickets for shoreside deliveries 1994-2007 and mothership deliveries 2001-2007, & NMFS Blend data for mothership deliveries 1994-2000 & 2008 data. Excludes CDQ and AI State water cod fishery.

\*Year AFA was implemented. \*\*Year BSAI crab rationalization program was implemented.

The sideboard dates resulting from the suboptions under Option 2 are shown below in Table 13. For all calculations, the date provided reflects the earliest or average date (depending on the suboption) that the rationalized sectors received a catcher vessel delivery of Pacific cod harvested in Area 541 or 542. The table also shows the results of the options when combined with Component 3, which proposes either a single sideboard which applies to all three of the rationalized sectors, or a program-specific sideboard, which proposes a separate sideboard for each of the three rationalized sectors. Recall that confidential data prevent showing the sideboard limits that would result with program-specific sideboards (refer to Table 11); but the sideboard dates that result from the program-specific sideboard options can be provided (Table 13).

Note that the AFA sector determined the earliest dates for the single sideboard options under Suboption 1a and b, as this sector had the earliest CV deliveries of cod in 2003 – 2007. Suboption 1c and d were calculated as the earliest dates for each sector within the three or five years prior to implementation of each rationalization program, respectively. For example, under Suboption 1c, the analyst evaluated the earliest delivery date taken in 1996, 1997, or 1998 for the AFA sector; 2002, 2003, or 2004 for the crab sector; and 2005, 2006, or 2007 for the Amendment 80 sector.<sup>26</sup> Out of those 9 years for those particular sectors, the earliest delivery date overall was February 28. For the program-specific sideboard, each sector was evaluated for its earliest delivery dates separately.

The resulting sideboard dates are later in the year under Suboption 2, which averages the earliest dates across various time periods. Suboption 2a and b under a single sideboard are relatively straightforward. Under Suboption 2a, the earliest date for a delivery to any of the three rationalized sectors in each of the years 2005, 2006, and 2007 was used to calculate the average over three years. The same calculation was done for Suboption 2b, during 2003 – 2007. For Suboption 2c and d under a single sideboard, the analyst calculated the average delivery date for each sector during the three or five years prior to the

<sup>26</sup>Staff recognizes that there could be a different interpretation of how to calculate the single sideboard options under Suboption 1c and d. For example, under Suboption 1c, one could also interpret the language to mean to use the earliest delivery date in 1996, 1997, 1998, 2002, 2003, 2004, 2005, 2006, or 2007 for any of the three rationalized sectors. Calculating Suboption 1c and 1d in this way would result in a sideboard date of Feb. 1 for both options.

implementation of its rationalization program, respectively. Then those three dates were averaged to find an average date that would apply to a single sideboard for all three sectors combined. For the program-specific sideboards, the average earliest delivery date was calculated for each sector separately.

**Table 13 Sideboards resulting from Component 1, Option 2, and Component 2 & 3**

Processing sideboard date options	Single sideboard <sup>1</sup>	Program-specific sideboard <sup>2</sup>
<b>Suboption 1. earliest date delivered within...</b>		
a. 2005 - 2007	Feb 10	AFA: Feb. 10 Crab: Mar 3 Am. 80: Mar 9
b. 2003 – 2007	Feb 1	AFA: Feb. 1 Crab: Feb 28 Am. 80: Mar 9
c. 3 yrs prior to program implementation	Feb 28	AFA: Mar 1 Crab: Feb 28 Am. 80: Mar 9
d. 5 yrs prior to program implementation	Feb 19	AFA: Mar 1 Crab: Feb 19 Am. 80: Mar 9
<b>Suboption 2. average earliest date delivered within...</b>		
a. 2005 - 2007	Feb 13	AFA: Feb 13 Crab: Mar 3 Am. 80: Mar 9
b. 2003 – 2007	Feb 10	AFA: Feb 10 Crab: Mar 2 Am. 80: Mar 16
c. 3 yrs prior to program implementation	Mar 7	AFA: Mar 8 Crab: Mar 5 Am. 80: Mar 9
d. 5 yrs prior to program implementation	Mar 10	AFA: Mar 8 Crab: Mar 5 Am. 80: Mar 16

Source: ADFG Fishtickets for shoreside deliveries 1994-2007 and mothership deliveries 2001-2007, & NMFS Blend data for mothership deliveries 1994-2000. Excludes CDQ and AI State water cod fishery.

<sup>1</sup>Component 3, Option 1, proposes a single sideboard for all three rationalized sectors.

<sup>2</sup>Component 3, Option 2, proposes a separate sideboard for each of the three rationalized sectors.

It is assumed that the options proposed to create a sideboard date (i.e., CV deliveries of Federal non-CDQ Pacific cod harvested in Area 541 or 542 to the rationalized processing sectors would be prohibited prior to this date) could be combined with a processing sideboard, or they could be selected exclusively. Meaning, the Council could decide not to establish a processing cap, and instead establish a date by which Pacific cod CV harvest in the Aleutians could start to be delivered to processing vessels in the three rationalized sectors at issue. This action would effectively work as a prohibition on mothership deliveries until the selected date. Prior to the date, CV cod could be delivered to processing vessels that are not identified as part of these rationalized sectors, or delivered shoreside. If rationalized floaters/motherships/CPs are not allowed to process AI cod earlier in the year, it effectively guarantees a portion of the A season harvest to be delivered shoreside, and likely primarily to Adak, as Adak is the closest shoreside plant in the area that processes Pacific cod. Adak’s primary fishery is Pacific cod, and in the past year Adak Fisheries has substantially expanded its cod processing capabilities.

The majority of the dates resulting from the *single* sideboard options are fairly early in the year (February), due to the AFA mothership and CP history of processing cod from the Aleutians earlier in

February during the past seven years. Thus, most of the dates under Suboption 1 and a single sideboard do not reflect the crab and Amendment 80 sectors' history of processing. Only the average dates under Suboption 2c and d reflect the crab and Amendment 80 sector, and those are notably later in the year (early March). Clearly, the *program-specific* sideboards under both Suboption 1 and 2 reflect each of the three sector's historical processing dates.

The closure dates for the Federal A season for the BSAI Pacific cod trawl CV sector are shown below. If the trend continues toward a shorter A season, the later dates resulting from the suboptions above could effectively operate as a prohibition on processing A season trawl Pacific cod from Areas 541 and 542 by processing vessels from the three rationalized sectors. Thus, it may be important to select sideboard date options that are structured such that they reflect the actual historical processing patterns of the vessels at issue, as opposed to averaging across various sectors and time periods that do not relate to one another.

Year	Closure date for A season BSAI trawl CV Pacific cod
2008	March 6
2007	March 12
2006	March 8
2005	March 13
2004	March 23

Source: NMFS Information bulletins, 2004 - 2008

## Summary

A sideboard is typically established to limit a sector's harvesting or processing activity to its historical share, when excess harvesting and/or processing capacity is likely, due to the sector's participation in a rationalization program. The intent is to prevent the rationalized sector from expanding its share in other fisheries due to this excess capacity, and eroding the shares of other non-rationalized participants. This paper is intended to provide sufficient information for the Council to determine whether it wants to initiate a formal analysis of processing sideboards for Pacific cod in the Central and Eastern AI.

The concern is that the lack of sideboards on processing of the BSAI Pacific cod CV allocations by rationalized processing vessels (e.g., AFA, BSAI crab rationalization, Amendment 80) has preempted, and will continue to preempt, an opportunity for these harvests to benefit vessels primarily operating out of Adak, shoreside processors, and the communities of Adak and Atka. There are concerns that the transient markets provided by motherships, floating processors, and catcher processors acting as motherships, may serve to undermine community stability by making it more difficult for shorebased processors to remain in business and provide year-round markets to smaller vessels participating in a suite of fisheries. Pacific cod has been the primary fishery supporting the shoreside processor in Adak; while Pacific cod harvested outside of Atka is typically processed by a (crab) mothership. The shoreplant in Atka does not currently have the capacity to process Pacific cod at the level necessary to make it economically viable.

Much of the concern prompting this action has stemmed from the 2008 A season for Pacific cod in the Aleutians. The shoreside sector has received an increasing share of the Eastern and Central AI Pacific cod deliveries starting in 1999, when the shoreplant was opened in Adak (refer to Table 8). During 2003 - 2007, the shoreside processing sector's average share was about 72% (refer to Table 9).<sup>27</sup> During this recent time period, the rationalized mothership/floater sector received a high of 47% in 2003 and a low of 13% in 2007, with an average share of about 29% over the same time period. In 2008 (preliminary data

<sup>27</sup>This percentage includes a limited amount of deliveries going to one 'other mothership' that is not included in any of the rationalized processing sectors in 2006 and 2007. See Tables 8 and 9.

from the NMFS catch accounting database, through mid-October), the shoreside processing share is reduced compared to the recent average. In 2008, the majority of the cod harvested from the Federal TAC in Area 541 and 542 has been delivered to the mothership/floater sector (58%) compared to the shoreside sector (42%). Note that including Pacific cod harvest in Areas 541 and 542 from the State managed AI fishery results in negligible changes to those overall percentages. For the shoreside plant in Adak (Adak Fisheries) in particular, the average 2003 – 2007 share of Pacific cod from the Federal TAC in Areas 541 and 542 was 70%; thus far in 2008, this share dropped to 38% (see Table 10).

There are concerns that the proposed action would not provide the intended benefits to shoreside processors. Note that if a sideboard was established that limited deliveries to AFA, crab rationalization, and Amendment 80 CPs/floaters/motherships, catcher vessels could continue to deliver to motherships or floating processors not in one of these rationalized sectors, or shoreside processors, without regulatory limits. Deliveries to ‘other’ motherships or floating processors would negate the purpose of the proposed action with regard to shoreside processors. As provided in the tables, only one to two ‘other’ motherships/floaters, that are not part of the rationalized sectors, have taken CV deliveries of Pacific cod harvested in Area 541 or 542 since 2000. In a couple of years, no ‘other’ motherships participated. However, as opportunities for floating processors become increasingly limited, there may be growing interest in the cod fishery. At the same time, concerns also exist regarding the potential for stranding fish in the Aleutians, in the event that ‘other’ floaters are not available, the Adak plant is not operating in a given year, and/or the plant in Atka does not yet have the capacity to process Pacific cod.

The action is intended to benefit catcher vessels and shoreside processors, specifically in Adak, as cod landings in Adak would support the plant and help to provide the year-round markets necessary for smaller vessels that participate in several fisheries. Ultimately, however, the proposed action serves to limit the markets available to all catcher vessels harvesting Pacific cod in the Eastern and Central Aleutians. Thus, while part of the purpose of separate CV sector allocations by gear type is to provide additional opportunities for harvest by smaller vessels, this action may serve to reduce the operational flexibility of and negotiating leverage for AI catcher vessels, which could potentially lead to a lower price for their catch.

Under the proposed options, the sideboard limit is established as: 1) the greatest amount delivered within the range of qualifying years; or 2) the average annual amount delivered within the range of qualifying years. In addition, options allow for three separate, *program-specific* processing sideboards (Component 3, Option 2) or for a *single* sideboard that would apply to all sectors (Component 3, Option 1). A limited amount of data can be provided on each individual rationalized processing sector, due to confidentiality issues. The harvest data attributed to these sectors must be aggregated for the purpose of analysis, due to the limited number of entities in each sector that have participated during the qualifying years. Thus, while the analysts are able to provide the results of the proposed processing sideboard options under a *single* sideboard that would apply to all sectors; they are not able to show the results of the options under three separate, *program-specific* processing sideboards.

Staff currently assumes that the sideboard amount is calculated based on the proposed qualifying years and then converted to a percentage of the total CV catch of Pacific cod in the BSAI (excluding AI State waters cod fishery and CDQ). This is because, as there is not an AI area specific TAC for Pacific cod, the sideboard would be applied to the non-CDQ BSAI Pacific cod CV TAC on an annual basis. The combination of Component 1 (sideboard limit) and Component 2 (qualifying years) and Component 3 (single vs. program-specific sideboards) results in sixteen potential suboptions: eight options for a single sideboard that would apply to all three rationalized processing sectors, and eight options for program-specific sideboards that would apply to each of the three rationalized processing sectors separately.

The *single* processing sideboards resulting from the suboptions are shown below in Table 14. The numerator of the sideboard calculation is retained CV catch from only Areas 541 and 542, and the denominator is the corresponding total Pacific cod BSAI CV catch in those years. These sideboards thus reflect the actual level of Pacific cod harvest in Areas 541 and 542 that has been delivered to motherships/floaters in the AFA, crab rationalization, and Amendment 80 processing sectors as a percentage of the total amount of BSAI Pacific cod catcher vessel harvest.

**Table 14 Single sideboards resulting from Component 1, Option 1, and Component 2**

<b>Processing sideboard limit options</b>	<b>Sideboard (as % of total combined CV Pacific cod allocations)</b>	<b>Sideboard in 2008 mt<sup>1</sup></b>
<b>Suboption 1. greatest amt delivered within...</b>		
a. 2005 - 2007	3.2%	1,664
b. 2003 – 2007	12.2%	6,342
c. 3 yrs prior to program implementation	4.4%	2,287
d. 5 yrs prior to program implementation	4.4%	2,287
<b>Suboption 2. average amt delivered within...</b>		
a. 2005 - 2007	2.7%	1,404
b. 2003 – 2007	6.0%	3,119
c. 3 yrs prior to program implementation	2.8%	1,456
d. 5 yrs prior to program implementation	2.4%	1,248

Source: Numerator of sideboard calculation is retained CV Pacific cod catch only in Areas 541 & 542. ADFG Fishtickets for shoreside deliveries 1994-2007 and mothership deliveries 2001-2007, & NMFS Blend data for mothership deliveries 1994-2000. Denominator of calculation is total BSAI CV Pacific cod catch from NMFS Blend/catch accounting database. All data exclude CDQ harvest and State AI cod fishery harvest.

<sup>1</sup>These estimates are based on the 2008 BSAI Pacific cod ITAC of 152,453 mt. The total CV Pacific cod portion of the ITAC is 34.1% or about 51,986 mt.

The resulting (single) sideboards would range from 2.4 percent to 12.2 percent of the total catcher vessel portion of the BSAI Pacific cod ITAC. The total CV Pacific cod portion of the ITAC is 34.1 percent, or almost 52,000 mt in 2008. Thus, under the 2008 TAC, the proposed sideboard limit would represent about 1,000 mt to over 6,000 mt. As stated above, through mid-October 2008, the majority of the cod harvested in Areas 541 and 542 has been delivered to the mothership/floater sector (about 58%) compared to the shoreside sector (42%). The amount of harvest landed with each individual rationalized sector cannot be provided due to confidentiality issues, but the rationalized sectors in aggregate received cod deliveries totaling about 6,500 mt thus far in 2008 (refer to Table 8). This equates to about 14 percent of the total BSAI CV Pacific cod (non-CDQ) catch through mid-October 2008, an amount higher than any sideboard option proposed.

Also included in the proposed options are sideboard dates, which would essentially prohibit deliveries of Pacific cod harvested in Areas 541 or 542 from being delivered to any of the three rationalized sectors until that date (refer to Table 13). The dates for the single sideboard options range from February 1 to March 7. The dates for the program-specific sideboard options range from February 1 to March 16. The options are structured such that the Council could choose processing sideboard limits with or without the processing sideboard dates.

There are no confidentiality issues related to the proposed *single* sideboard, i.e., one cod processing sideboard that applies to all three rationalized sectors combined (Component 3, Option 1). However, a limited amount of data can be provided on each individual rationalized processing sector, due to confidentiality issues, which prevents the analysts from being able to provide any results of the options that would establish three separate, *program-specific* processing sideboards (Component 3, Option 2). However, the Council is not necessarily restricted from establishing processing sideboards even if the harvest data necessary to evaluate the proposed options are confidential.

One option would be to create a different method for establishing the sideboard, other than catch history. In the past, the Council has only established sideboards based on harvest or processing history in the specific sector being constrained, meaning, there is no other precedent. However, the Council or the public may have alternative ideas on how to establish a sideboard other than the historical amount that has been delivered to each rationalized processing sector.

Alternatively, the Council could consider a sideboard of 0%, if the Council determines that even *some* catch delivered to the rationalized sectors does not meet the intent of the programs. Essentially, such a sideboard would equate to a prohibition on CPs, motherships, and floaters participating in the AFA, BSAI crab rationalization, and BSAI Amendment 80 from receiving catcher vessel deliveries of Pacific cod harvested in the Eastern and Central Aleutian Islands. The Council could also determine that the action is not warranted (effectively, no sideboard limit).

NOAA GC suggests that the Council could also develop and recommend criteria and justification for a processing sideboard, such as the existing proposal, but the analysis would not report confidential results. NMFS would calculate the actual sideboards resulting from the selected criteria and publish the percentages in the proposed and final rules. Confidential data have been an issue in the development of previous programs, but have not prevented the Council from taking action based on a clearly stated principle. For example, in the GOA rockfish pilot program, confidentiality prevented the analysis from showing some of the prohibited species sideboards resulting from the proposed options. If the rationale and objective of the action is stated clearly (e.g., to limit participants to historical processing levels so as not to expand efforts in specific areas or fisheries), the Council could take action on a sideboard based on history, even if the historical data to establish the sideboard cannot be provided. In this case, the rationale and criteria for the sideboard (e.g., harvest history delivered during specific qualifying years) can be described in the analysis, but NMFS would calculate the actual sideboards resulting from the selected criteria and publish the percentages in the proposed and final rules.

Another approach would be to use fleet-wide annual or weekly processing data for each rationalized sector to calculate a reasonable estimate of the amount of processing for the one or two motherships/floaters/CPs based on the number of weeks they have operated in the Aleutians. The analyst would thus provide as much information about the sector and fishery as possible without violating confidentiality rules. The results of these calculations could either: 1) represent *options* to establish the actual sideboard selected by the Council, or 2) be used as reasonable *estimates* in the analysis for the amount of the sideboards when they are calculated based on actual history under the existing options (i.e., the exact sideboard amount would not be known until it is published in the proposed and final rules).

Finally, upon review of this paper, the Council could determine that program-specific sideboards are not necessary, and may exclude those options from a proposed analysis. NMFS will also likely need to provide feedback on the relative feasibility of effectively managing program-specific sideboards versus an aggregate sideboard that would apply to all three rationalized sectors, as well as the possibility of the rationalized sectors (cooperatives) managing the program-specific sideboards to which they are subject. At this December meeting, the Council could initiate a formal analysis, or request additional information prior to taking this step. The Council could also determine that the action is not warranted.

## Appendix 1. Summary data on the State water Aleutian Islands Pacific cod fishery

### Aleutian Islands State waters Pacific cod fishery guideline harvest level and harvest apportionment, 2006 - 2008

Year	Season	Initial GHL <sup>b</sup>	Season Dates		Season Length <sup>a</sup>	Harvest <sup>b</sup>	Number of	
			Opened	Closed			Vessels	Deliveries
2006	A season	8,981,540	15-Mar	24-Mar	9	conf.	26	68
	B season	3,849,232 <sup>c</sup>	10-Jun	1-Sep	83	conf.	5	24
	TOTAL	12,830,772			92	8,860,665	29 <sup>d</sup>	92
2007	A season	8,148,202	16-Mar	23-Mar	7	8,229,931	29	97
	B season	3,492,086 <sup>e</sup>	10-Jun	1-Sep	83	2,143,310	10	92
			1-Oct	3-Dec	63	1,265,760	5	14
TOTAL	11,640,288			153	11,639,001	41 <sup>d</sup>	203	
2008	A season	8,148,202	10-Mar	18-Mar	8	7,478,914	30	116
	B season	3,492,086 <sup>f</sup>	10-Jun	9-Jul	29	4,235,449	18	77
	TOTAL	11,640,288			37	11,714,363	45 <sup>d</sup>	193

<sup>a</sup>In days.

<sup>b</sup>In whole pounds.

<sup>c</sup>ADF&G made 3.5 million pounds of the GHL available to NMFS effective on September 1.

<sup>d</sup>Some vessels participated in both seasons.

<sup>e</sup>81,729 pounds were deducted from the B season due to an overage during the A season.

<sup>f</sup>669,288 pounds remained from the A season and was rolled into the B season.

Source: ADF&G fishtickets, 2006 – 2008.

Conf. = confidential data.

### State AI Pacific Cod Fishery by Processor Type, 2006 - 2008

2006 Total	Processor Type	Round lbs	Percent	# processors
	Floating Processor	4,859,521	55%	3
	Shorebased Processor	2,231,720	25%	3
	Catcher Processor	1,769,424	20%	7
		<b>8,860,665</b>	100%	
<b>2007 Total</b>				
	Floating Processor	**	**	3
	Shorebased Processor	conf.	conf.	2
	Catcher Processor	4,540,306	39%	3
		<b>11,712,936</b>	100%	
<b>2008 Total</b>				
	Floating Processor	**	**	5
	Shorebased Processor	conf.	conf.	2
	Catcher Processor	4,540,306	39%	6
		<b>11,712,936</b>	100%	

Source: ADF&G fishtickets, 2006 - 2008.

Conf. = confidential data. \*\*data withheld to prevent showing confidential data by simple subtraction.

**Appendix 1. continued.**

**State AI Pacific Cod Fishery by Gear Type, 2006 - 2008**

<b>2006 Total</b>	<b>Gear Type</b>	<b>Round lbs</b>	<b>Percent</b>	<b>Number of Vessels</b>	<b>Number of landings</b>
	Trawl	7,053,035	80%	20	58
	Longline	**	**	11	19
	Pot	conf.	conf.	2	14
		8,860,665	100%		
<b>2007 Total</b>	Trawl	6,998,224	60%	20	78
	Jig	conf.	conf.	1	2
	Longline	**	**	7	80
	Pot	3,614,870	31%	12	43
		11,625,775	100%		
<b>2008 Total</b>	Trawl	6,130,284	52%	22	94
	Jig	92,572	1%	5	18
	Longline	509,296	4%	9	25
	Pot	4,980,784	43%	11	56
		11,712,936	100%		

Source: ADF&G fishtickets, 2006 – 2008.

Conf. = confidential data. \*\*data withheld to prevent showing confidential data by simple subtraction.

## Appendix 2. AFA Catcher Processors and Motherships

### AFA Catcher processors

VESSEL NAME	ADFG	CG NUM	AFA PERMIT
ALASKA OCEAN	60407	637856	3794
AMERICAN DYNASTY	59378	951307	3681
AMERICAN ENTERPRISE	54836	594803	2760
AMERICAN TRIUMPH	60660	646737	4055
ARCTIC FJORD	57450	940866	3396
ARCTIC STORM	54886	903511	2943
ENDURANCE	57201	592206	3360
HIGHLAND LIGHT	56974	577044	3348
ISLAND ENTERPRISE	59503	610290	3870
KATIE ANN	55301	518441	1996
KODIAK ENTERPRISE	59170	579450	3671
NORTHERN EAGLE	56618	506694	3261
NORTHERN GLACIER	48075	663457	661
NORTHERN HAWK	60795	643771	4063
NORTHERN JAEGER	60202	521069	3896
OCEAN PEACE	55767	677399	2134
OCEAN ROVER	56987	552100	3442
PACIFIC GLACIER	56991	933627	3357
SEATTLE ENTERPRISE	56789	904767	3245
STARBOUND	57621	944658	3414
U.S. ENTERPRISE	55125	921112	3004

### AFA Motherships

EXCELLENCE	60958	967502	4111
GOLDEN ALASKA	52929	651041	1607
OCEAN PHOENIX	59463	296779	3703

**Appendix 3. Processing vessels that contributed to C. Opilio BSAI crab processing quota share allocations**

<b>F_PROCSS</b>	<b>I_ADFG</b>	<b>Vessel Name</b>	<b>CP</b>
F0944	41052	ALASKA PACKER	N
F3661	32728	ALASKAN ENTERPRISE	Y
F1484	56973	ALEUTIAN FALCON (M/V)	N
F0138	37268	ARCTIC STAR	N
F1911	34855	BARANOF	Y
F0137	37267	BERING STAR (P/V)	N
Z3724	54865	BLUE DUTCH	Y
F1636	51736	BLUE WAVE (M/V)	N
F0947	34053	BOUNTIFUL (FV)	Y
F1140	30919	COASTAL STAR	N
F9556	35833	COURAGEOUS	Y
F1456	31363	INDEPENDENCE	N
F9719	54865	KISKA ENTERPRISE	Y
F3219	34905	MR B (F/V)	Y
F1551	37374	PAVLOF	Y
F1319	60507	NORTHERN VICTOR	N
F1307	51652	NORTHLAND	N
F1066	55159	OMNISEA	N
Z2436	40837	PACIFIC LADY	Y
F1482	45836	PRIBILOF (M/V)	N
F9604	53810	PRO SURVEYOR	Y
F9723	61182	ROYAL ENTERPRISE	Y
F0945	56146	SEA ALASKA	N
Z2434	04067	SEAWIND (F/V)	Y
F1146	57605	SNOPAC	N
F1589	64242	STELLAR SEA (M/V)	N
F9715	32660	WESTWARD WIND	Y
F3231	53677	YARDARM KNOT M/V	N

#### Appendix 4. Catcher processors that qualified under BSAI Amendment 80

Name	CG	LLP
ALASKA JURIS	569276	LLG2082
ALASKA RANGER	550138	LLG2118
ALASKA SPIRIT	554913	LLG3043
ALASKA VICTORY	569752	LLG2080
ALASKA VOYAGER	536484	LLG2084
ALASKA WARRIOR	590350	LLG2083
ALLIANCE	622750	LLG2905
AMERICAN NO I	610654	LLG2028
ARCTIC ROSE	931446	LLG3895
ARICA	550139	LLG2429
BERING ENTERPRISE	610869	LLG3744
CAPE HORN	653806	LLG2432
CONSTELLATION	640364	LLG1147
DEFENDER	665983	LLG3217
ENTERPRISE	657383	LLG4831
GOLDEN FLEECE	609951	LLG2524
HARVESTER ENTERPRISE	584902	LLG3741
LEGACY	664882	LLG3714
OCEAN ALASKA	623210	LLG4360
OCEAN PEACE	677399	LLG2138
PROSPERITY	615485	LLG1802
REBECCA IRENE	697637	LLG3958
SEAFISHER	575587	LLG2014
SEAFREEZE ALASKA	517242	LLG4692
TREMONT	529154	LLG2785
U.S. INTREPID	604439	LLG3662
UNIMAK	637693	LLG3957
VAERDAL	611225	LLG1402

Source: Table 31 to Part 679. 72 FR 52739, 9/14/07.

Note: The Alaska Ranger, Arctic Rose, and Prosperity have sunk.

The Bering Enterprise was sold to Russia and cannot re-enter U.S. fisheries.

**Appendix 5**

**TABLE 5.—2008 AND 2009 GEAR SHARES AND SEASONAL ALLOWANCES OF THE BSAI PACIFIC COD TAC**

[Amounts are in metric tons]

Gear sector	Percent	2008 and 2009 share of gear sector total	2008 and 2009 share of sector total	2008 and 2009 seasonal apportionment <sup>2</sup>	
				Dates	Amount
Total TAC .....	100	170,720	n/a	n/a .....	n/a
CDQ .....	10.7	18,267	n/a	see § 679.20(a)(7)(i)(B) .....	n/a
Total hook-and-line/pot gear .....	60.8	92,691	n/a	n/a .....	n/a
Hook-and-line/pot ICA <sup>1</sup> .....	n/a	n/a	500	n/a .....	n/a
Hook-and-line/pot subtotal .....	n/a	92,191	n/a	n/a .....	n/a
Hook-and-line catcher/processor .....	48.7	n/a	73,844	Jan 1–Jun 10 .....	37,660
				Jun 10–Dec 31 .....	36,184
Hook-and-line catcher vessel ≥ 60 ft LOA .....	0.2	n/a	303	Jan 1–Jun 10 .....	155
				Jun 10–Dec 31 .....	149
Pot catcher/processor .....	1.5	n/a	2,274	Jan 1–Jun 10 .....	1,160
				Sept 1–Dec 31 .....	1,114
Pot catcher vessel ≥ 60 ft LOA ...	8.4	n/a	12,737	Jan 1–Jun 10 .....	6,496
				Sept 1–Dec 31 .....	6,241
Catcher vessel < 60 ft LOA using hook-and-line or pot gear .....	2.0	3,033	3,033	n/a .....	n/a
Trawl catcher vessel .....	22.1	33,692	n/a	Jan 20–Apr 1 .....	24,932
				Apr 1–Jun 10 .....	3,706
				Jun 10–Nov 1 .....	5,054
AFA trawl catcher/processor .....	2.3	3,506	n/a	Jan 20–Apr 1 .....	2,630
				Apr 1–Jun 10 .....	877
				Jun 10–Nov 1 .....	0
Amendment 80 .....	13.4	20,429	n/a	Jan 20–Apr 1 .....	15,322
				Apr 1–Jun 10 .....	5,107
				Jun 10–Nov 1 .....	0
Amendment 80 limited access <sup>2</sup> ..	n/a	n/a	3,294	Jan 20–Apr 1 .....	2,471
				Apr 1–Jun 10 .....	824
				Jun 10–Nov 1 .....	0
Amendment 80 cooperatives <sup>2</sup> ....	n/a	n/a	17,135	Jan 20–Apr 1 .....	12,851
				Apr 1–Jun 10 .....	4,284
				Jun 10–Nov 1 .....	0
Jig .....	1.4	2,134	n/a	Jan 1–Apr 30 .....	1,281
				Apr 30–Aug 31 .....	427
				Aug 31–Dec 31 .....	427

<sup>1</sup> The ICA for the hook-and-line and pot sectors will be deducted from the aggregate portion of Pacific cod TAC allocated to the hook-and-line and pot sectors. The Regional Administrator approves an ICA of 500 mt for 2008 and 2009 based on anticipated incidental catch in these fisheries.

<sup>2</sup> The 2009 allocations for Amendment 80 species between Amendment 80 cooperatives and the Amendment 80 limited access sector will not be known until eligible participants apply for participation in the program by November 1, 2008.