IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF WASHINGTON

UNITED STATES OF AMERICA,)	
Plaintiff,)	
)	Civil Action No. 2:19-cv-231
V.)	CONSENT DECREE
Trident Seafoods Corporation,)	
Royal Viking, Inc., and Golden Dawn, LLC,)	
Defendants.)	
)	

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1	Whereas, Plaintiff United States of America, on behalf of the United States
2	Environmental Protection Agency ("EPA"), has filed a complaint in this action concurrently with
3	this Consent Decree, alleging that Defendants Trident Seafoods Corporation ("Trident"), Royal
4	Viking, Inc., and Golden Dawn, LLC, violated regulations set forth in 40 C.F.R. Part 82, Subpart
5	F, and promulgated by EPA pursuant to Title VI of the Clean Air Act ("CAA" or "Act"), 42
6	U.S.C. §§ 7671-7671q;
7	Whereas, pursuant to an Information Request issued under CAA Section 114, 42 U.S.C.
8	§ 7414, EPA obtained information from Trident concerning its compliance with Title VI of the
9	CAA, 42 U.S.C. §§ 7671-7671q, at its vessels and facilities through March 31, 2016;
10	Whereas, the Complaint against Defendants alleges that Defendants have failed to
11	comply with Title VI of the CAA, and the regulations set forth in 40 C.F.R. Part 82, Subpart F,
12	because they failed to repair leaks in their commercial and industrial process refrigeration
13	appliances, failed to perform initial and/or follow-up verification tests on leaking industrial
14	process refrigeration appliances, did not maintain adequate records of service performed on their
15	appliances, did not have legally required, certified refrigerant recovery or recycling equipment,
16	and had service performed on their refrigeration appliances by uncertified technicians;
17	Whereas, the Parties recognize, and the Court by entering the Consent Decree finds, that
18	the Consent Decree has been negotiated by the Parties in good faith and will avoid litigation
19	between the Parties and that the Consent Decree is fair, reasonable, and in the public interest.
20	NOW, THEREFORE, with the consent of the Parties, IT IS HEREBY ADJUDGED,
21	ORDERED, AND DECREED as follows:

1	I. JURISDICTION AND VENUE
2	1. This Court has jurisdiction over the subject matter of this action, pursuant to
3	28 U.S.C. §§ 1331, 1345, and 1355, and Section 113(b) of the CAA, 42 U.S.C. § 7413(b), and
4	over the Parties. Venue lies in this District pursuant to Section 113(b) of the CAA, 42 U.S.C.
5	§ 7413(b), and 28 U.S.C. §§ 1391(b) and 1395(a), because Defendants Trident Seafoods
6	Corporation, Royal Viking, Inc. and Golden Dawn, LLC reside and maintain corporate
7	headquarters in this judicial district and all Defendants are doing business in this judicial district.
8	For purposes of the Decree, or any action to enforce the Decree, Defendants consent to the
9	Court's jurisdiction over the Decree and any such action and over Defendants and consent to
10	venue in this judicial district.
11	2. For purposes of the Consent Decree, Defendants agree that the Complaint states
12	claims upon which relief may be granted pursuant to Sections 113(b) and 608 of the CAA, 42
13	U.S.C. §§ 7413(b) and 7671g.
14	II. APPLICABILITY
15	3. The obligations of the Consent Decree apply to and are binding upon the United
16	States and upon Defendants and any successors, assigns, or other entities or persons otherwise
17	bound by law.
18	4. The following procedures shall govern transfers of ownership and/or operation of
19	Obligated Vessels, and any attempt to transfer ownership and/or operation of an Obligated
20	Vessel without complying with this Paragraph constitutes a violation of this decree.
21	a. At least sixty (60) Days before any transfer of ownership and/or operation
22	of an Obligated Vessel, relevant Defendants shall advise the person to whom Defendants intend
23	to transfer ownership and/or operation of an Obligated Vessel (Transferee) in writing of the
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1	existence of this Consent Decree and provide a copy of this Consent Decree to the Transferee,
2	and shall simultaneously provide the United States in accordance with Section XIX (Notices) of
3	this Consent Decree with a copy of such written notification as well as the proposed transfer
4	agreement.
5	b. In their notice to the United States, Defendants shall indicate whether they
6	intend to request: (1) to be relieved of the obligations of the Consent Decree with respect to that
7	Obligated Vessel without a Substitution of the Transferee for the Defendants, pursuant to
8	Paragraph 5.a below; or (2) to substitute the Transferee for the Defendants in this Consent
9	Decree as to obligations concerning the transferred Obligated Vessel (a Substitution), pursuant to
10	Paragraph 5.b below; or (3) to remain responsible for compliance with this Consent Decree as to
11	the transferred Obligated Vessel pursuant to Paragraph 5.c below.
12	c. The Defendants shall give EPA the opportunity to inspect the to-be-
13	transferred Obligated Vessel.
14	5. Defendants shall be relieved of their obligations under this Consent Decree as to
15	the transferred Obligated Vessel only where the following requirements of Paragraphs 5.a or 5.b
16	below are satisfied.
17	a. Relief from Consent Decree Obligations without a Substitution.
18	Defendants may be relieved from the obligations in this Consent Decree without a Substitution
19	only where the relevant Defendant:
20	(1) Transfers both ownership and operation of the Obligated Vessel to an
21	entity that is not related to the Defendants; and
22	
23	

1	(2) Demonstrates and certifies that all Large Appliances at the Obligated
2	Vessel being transferred have been retrofitted in accordance with Paragraphs 16, 17, 46 and 47
3	below.
4	b. <u>Substitution of Transferee for Defendants</u> .
5	(1) A Substitution of the Transferee for Defendants in this Consent Decree
6	may occur only where Defendants transfer both ownership and operation of the Obligated
7	Vessel.
8	(2) In the notice provided pursuant to Paragraph 4.a seeking a Substitution,
9	Defendants shall provide the United States with information concerning the proposed Transferee
10	and request approval to substitute the Transferee for Defendants with respect to retrofit or
11	retirement obligations pertaining to the Obligated Vessel to be transferred.
12	(3) Within sixty (60) Days of receiving the notice and request for
13	Substitution in Paragraph 4.a above, the United States will notify Defendants as to whether it
14	will agree to modify the Consent Decree to effectuate the requested Substitution. The United
15	States' approval of a proposed transfer that seeks a Substitution shall not be arbitrarily and
16	capriciously withheld.
17	(4) The United States, the Defendants, and the Transferee will execute, and
18	the Court must approve, a modification pursuant to Section XXII (Modification) of this Consent
19	Decree that:
20	(i) Makes the Transferee a party to this Consent Decree;
21	(ii) Makes the Transferee liable for the retrofit or retirement obligations
22	of Paragraphs 16-18 and 46-47 applicable to the Obligated Vessel to
23	be transferred; and

I	(111) Relieves the Defendants of their liability under this Consent Decree
2	for all obligations and liabilities applicable to the Obligated Vessel
3	to be transferred.
4	c. <u>Transfer without Relieving Defendants of Consent Decree Obligations or</u>
5	a Substitution. Where Defendants transfer either ownership and/or operation of an Obligated
6	Vessel but are not relieved of responsibility for compliance with this Consent Decree pursuant to
7	Paragraph 5.a above, or a Substitution does not occur pursuant to Paragraph 5.b above,
8	Defendants shall remain responsible for compliance with this Consent Decree and the Transferee
9	shall be added as a Defendant through modification of this Consent Decree under Section XXII
10	(Modification) of this Consent Decree.
11	6. <u>Facilities and Vessels other than Obligated Vessels.</u> For Facilities and Vessels
12	other than Obligated Vessels, Defendants shall give written notice of this Consent Decree to any
13	successors in interest to the owners and/or operators of any Facility or Vessel at least thirty (30)
14	Days prior to the transfer of ownership or operation of any portion of a Facility or Vessel, and
15	shall simultaneously provide a copy of this Consent Decree to any such Transferee unless the
16	Transferee is also a Defendant under this Consent Decree. Defendants shall notify the United
17	States of any Transfer at least sixty (60) Days prior to any such transfer, in accordance with
18	Section XIX (Notices) of this Consent Decree. Defendants may be relieved from the obligations
19	in this Consent Decree as to the transferred Facility or Vessel only, without a Substitution, only
20	where Defendants:
21	a. Transfer both ownership and operation of the Facility or Vessel to an
22	entity that is not related to the Defendants;
23	b. Demonstrate and certify that at the time of the transfer:
23	b. Demonstrate and certify that at the time of the transfer:

1	(1) None of the Large Appliances in the Facility or Vessel have a leak rate
2	in excess of the applicable leak repair threshold in 40 C.F.R. §§ 82.156(i) or 82.157;
3	(2) Any refrigerant leaks from any Large Appliances in the Facility or
4	Vessel discovered via the most recent comprehensive leak inspection conducted in accordance
5	with Paragraph 29 or leak inspection conducted in accordance with Paragraphs 35 through 37
6	have been repaired in accordance with Paragraph 39; and
7	(3) If required by Paragraph 31, Defendants have installed Fixed Leak
8	Detection Systems in the Facility or Vessel and added fluorescent dye to all Large Appliances in
9	the Facility or Vessel in accordance with Paragraphs 31 and 32; and
10	c. Give EPA the opportunity to inspect the to-be-transferred Facility or
11	Vessel, as well as sixty (60) Days of notice to confirm that the requirements of Paragraph 6.b
12	above are satisfied.
13	7. Vessels subject to Section VII (Supplemental Environmental Project) shall not be
14	transferred prior to being retrofitted in accordance with Paragraph 48. If a Vessel subject to
15	Section VII (Supplemental Environmental Project) has been retrofitted in accordance with
16	Paragraph 48, Defendants may be relieved of obligations under the Consent Decree for that
17	Vessel only if Defendants transfer the Vessel in compliance with the procedures set forth in
18	Paragraph 6 above.
19	8. Transfer of a Facility or Vessel under Paragraphs 4 through 7 above shall not
20	release the Defendants from any obligation under this Consent Decree that is not specific to the
21	transferred Facility or Vessel, including the obligations set forth in Sections IV (Civil Penalty),
22	VIII (Annual Refrigerant Loss Cap Program), and XIII (Stipulated Penalties), and all obligations

1	in Sections V (Compliance Requirements), VI (Retrofits), and XI (Reporting Requirements) with
2	respect to any other Vessels.
3	9. Defendants shall provide a copy in paper or electronic form of the Consent
4	Decree to all officers, employees, and agents whose duties might reasonably include compliance
5	with any provision of the Decree, as well as to any contractor retained to perform work required
6	under the Consent Decree, and any Auditor(s) hired pursuant to Section IX (Third Party
7	Verification). Defendants shall condition any such contract upon performance of the work in
8	conformity with the terms of the Consent Decree.
9	10. In any action to enforce the Consent Decree, Defendants shall not raise as a
10	defense the failure by any of their officers, directors, employees, agents, contractors, or Auditors,
11	to take any actions necessary to comply with the provisions of the Consent Decree.
12	III. DEFINITIONS
13	11. Terms used in the Consent Decree that are defined in the CAA or in regulations
14	promulgated pursuant to the CAA shall have the meanings assigned to them in the CAA or such
15	regulations, unless otherwise provided in the Decree. Whenever the terms set forth below are
16	used in the Consent Decree, the following definitions shall apply:
17	a. "Audit" shall mean a third-party audit as described in Section IX.
18	b. "Auditor" shall mean an independent third-party auditor selected and
19	approved pursuant to Section IX.
20	c. "Audit Finding" shall mean each way in which any document, record,
21	report, diagram, test, system, review, evaluation, policy, practice, plan, training, procedure,
22	personnel, equipment, or other item, action, or omission at a Vessel or Facility deviates from, or
23	

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1	does not comply and conform with this Consent Decree and with the portions of Appendix A that
2	address compliance with 40 C.F.R. Part 82, Subpart F.
3	d. "Class I or Class II refrigerant" shall mean "Class I" or "Class II" ozone
4	depleting substances as those terms are defined in 40 C.F.R. § 82.152.
5	e. "Complaint" shall mean the complaint filed by the United States in this
6	action.
7	f. "Component" shall mean a part of the refrigerant circuit within an
8	appliance including, but not limited to, compressors, condensers, evaporators, receivers, and all
9	of its connections and subassemblies.
10	g. "Consent Decree" or "Decree" shall mean this Consent Decree and all
11	appendices attached hereto.
12	h. "Covered Refrigerant" shall mean any refrigerant, as defined in
13	40 C.F.R. § 82.152, with the exception of any exempt substitute as defined in 40 C.F.R. §§
14	82.152 and 82.154(a)(1).
15	i. "Day" shall mean a calendar day unless expressly stated to be a business
16	day. In computing any period of time under the Consent Decree, where the last Day would fall
17	on a Saturday, Sunday, or federal holiday, the period shall run until the close of business of the
18	next business day.
19	j. "Defendants" shall mean Trident Seafoods Corporation, Royal Viking,
20	Inc. and Golden Dawn, LLC, either collectively or individually.
21	k. "EPA" shall mean the United States Environmental Protection Agency
22	and any of its successor departments or agencies.
23	1. "Effective Date" shall have the definition provided in Section XX.
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1	m. "Extended Lay-up" shall mean a period of time lasting two weeks or
2	longer in which a Vessel is in port, not actively preparing for production operations, and when
3	each Large Appliance is Pumped Down.
4	n. "Facility" or "Facilities" shall mean all land based facilities that contain at
5	least one Large Appliance and that are owned or operated by Defendants as of the Effective
6	Date, or which Defendants may acquire during the effective period of this Consent Decree.
7	o. "Fixed Leak Detection System" shall mean a device installed on or near a
8	Large Appliance(s) that is designed, located, and calibrated to detect the escape of Covered
9	Refrigerant from said Large Appliance(s).
10	p. "Full Charge" shall mean the amount of Covered Refrigerant required for
11	normal operating characteristics and conditions of a Large Appliance, as determined in
12	accordance with 40 C.F.R. § 82.152. For Large Appliances with a Full Charge greater than 5,000
13	pounds of Covered Refrigerant, Defendants shall determine the Full Charge in accordance with
14	method (3) described under "Full Charge" in 40 C.F.R. § 82.152. For Large Appliances with a
15	Full Charge between 50 and 5,000 pounds of Covered Refrigerant, if Defendants have actual
16	measurements of the amount of refrigerant added to or evacuated from the appliance, including
17	for Seasonal Variances, they shall use method (3); otherwise, they shall use method (2) described
18	under 40 C.F.R. § 82.152.
19	q. "Large Appliance" shall mean any industrial process refrigeration or
20	commercial refrigeration equipment, as defined in 40 C.F.R. § 82.152, that "normally contains"
21	(as defined in 40 C.F.R. § 82.152) more than 50 pounds of Covered Refrigerant.
22	r. "Medium Appliance" shall mean any appliance that "normally contains"
23	(as defined in 40 C.F.R. § 82.152) between 5 and 50 pounds of Covered Refrigerant.
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1	s. "Obligated Vessel" shall mean a Vessel with Large Appliances subject to
2	retrofit or retirement obligation under Paragraphs 16-17 and 46-47 of this Consent Decree.
3	t. "Paragraph" shall mean a portion of the Decree identified by an Arabic
4	numeral.
5	u. "Parties" shall mean the United States and Defendants.
6	v. "Plate Freezer" shall mean freezers designed for freezing of products
7	packed in pans that are pressed between plates in which refrigerant circulates through channels
8	within the plates.
9	w. "Pumped Down" shall mean when liquid refrigerant is moved internally
10	within the appliance from system evaporators to be stored in the high side of the system or in
11	other system Components to minimize potential refrigerant loss. An appliance Component is
12	Pumped Down if refrigerant has been evacuated from the Component to the maximum extent
13	possible, taking into consideration equipment availability and the limitations of the appliance in
14	which the Component is a part.
15	x. "Pumped-out and Isolated Component" shall mean a Component of an
16	appliance from which Defendants have evacuated refrigerant to the levels specified in
17	40 C.F.R. § 82.156, Table 1, and which is physically prevented from containing refrigerant
18	through use of a valve, flange, or other device. A Pumped-out and Isolated Component shall not
19	include the valve, flange, or other device used to prevent the Component from containing
20	refrigerant.
21	y. "Replacement Refrigerant" shall mean R-448A or any other refrigerant
22	approved by EPA pursuant to Section XII (Petitions).
23	

1	z. "Refrigerant Compliance Plan," "Plan," or "RCP" shall mean the	
2	Defendant's Refrigerant Compliance Plan attached as Appendix A to this Consent Decree and	
3	any revisions made pursuant to Paragraphs 21 through 26 of this Decree.	
4	aa. "Seasonal Variance," except as pertaining to Section VIII (Annual	
5	Refrigerant Loss Cap Program), shall mean the removal of refrigerant from an appliance due to	
6	change in ambient conditions caused by a change in season, followed by the subsequent addition	
7	of an amount that is less than or equal to the amount of refrigerant removed in the prior change	
8	in season, where both the removal and addition of refrigerant occurs within one consecutive 12-	
9	month period.	
10	bb. "Section" shall mean a portion of the Decree identified by a roman	
11	numeral.	
12	cc. "Third Party" shall mean any entity that is not a Defendant, an affiliated	
13	entity of a Defendant, or the United States.	
14	dd. "United States" shall mean the United States of America, acting on behalf	
15	of EPA.	
16	ee. "Vessel" or "Vessels" shall mean all ships, boats or other watercraft that	
17	contain at least one Large Appliance and that are owned or operated by Defendants as of the	
18	Effective Date, or which Defendants may acquire during the effective period of this Consent	
19	Decree.	
20	IV. CIVIL PENALTY	
21	12. Within thirty (30) Days after the Effective Date, Defendants shall pay the sum of	
22	\$900,000 as a civil penalty, together with interest accruing from August 7, 2017, at the rate	
23	specified in 28 U.S.C. § 1961 as of the date of lodging.	
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1	13. Defendants shall pay the civil penalty due via FedWire Electronic Funds Transfer				
2	("EFT") to the U.S. Department of Justice account, in accordance with instructions provided to				
3	Defendants by the Financial Litigation Unit ("FLU") of the United States Attorney's Office for				
4	the Western District of Washington after the Effective Date. The payment instructions provided				
5	by the FLU will include a Consolidated Debt Collection System ("CDCS") number, which				
6	Defendants shall use to identify all payments required to be made in accordance with the				
7	Consent Decree. The FLU will provide the payment instructions to:				
8 9 10 11 12 13 14	Shawn Stokes Regulatory Affairs Director Trident Seafoods Corporation 5303 Shilshole Ave NW Seattle, WA 98107 (206) 783-3818 sstokes@tridentseafoods.com				
15	on behalf of Defendant. Defendants may change the individual to receive payment instructions				
16	on their behalf by providing written notice of such change to the United States and EPA in				
17	accordance with Section XIX (Notices).				
18	At the time of payment, Defendants shall send notice that payment has been made: (i) to				
19	EPA via email at cinwd_acctsreceivable@epa.gov or via regular mail at EPA Cincinnati Finance				
20	Office, 26 W. Martin Luther King Drive, Cincinnati, Ohio 45268; (ii) to the United States via				
21	email or regular mail in accordance with Section XIX (Notices); and (iii) to EPA in accordance				
22	with Section XIX (Notices). Such notice shall state that the payment is for the civil penalty owed				
23	pursuant to the Consent Decree in United States v. Trident Seafoods Corporation and shall				
24	reference the civil action number, CDCS Number and DOJ case number 90-5-2-1-11183.				
25	14. Defendants shall not deduct any penalties paid under the Decree pursuant to this				
26	Section or Section XIII (Stipulated Penalties) in calculating their federal income tax.				

1	V. COMPLIANCE REQUIREMENTS			
2	A. Compliance with Applicable Law			
3	15. Defendants shall comply with all applicable requirements of Section 608 of the			
4	CAA, 42 U.S.C. § 7671g, and its implementing regulations at 40 C.F.R. Part 82, Subpart F.			
5 6	B. Retrofits and Retirements of Large Appliances with a Full Charge of between 50 and 5,000 pounds of Class I or Class II Refrigerant and of Medium Appliances			
7	16. <u>Large Appliances with a Full Charge of between 50 and 5,000 pounds of Class I</u>			
8	or Class II refrigerant. Consistent with the terms of this Consent Decree, Defendants must retrofit			
9	or retire any Large Appliances on the Entrance Point, the Royal Viking, the Southern Wind, the			
10	Northern Ram, and the Pacific Viking to a Replacement Refrigerant or "exempt substitute," as			
11	defined in 40 C.F.R. §§ 82.152 & 154(a)(1), by no later than January 31, 2022.			
12	17. Any Large Appliance that does not use a Replacement Refrigerant or an "exempt			
13	substitute" that Defendants acquire during the pendency of this Consent Decree to replace any of			
14	the Large Appliances on the Entrance Point, the Royal Viking, the Southern Wind, the Northern			
15	Ram, or the Pacific Viking, or to replace the refrigeration capacity of those Vessels, must be			
16	retrofitted, within two years of purchase or acquisition, to use a Replacement Refrigerant or an			
17	"exempt substitute," as defined in 40 C.F.R. §§ 82.152 and 82.154(a)(1), as its refrigerant.			
18	18. <u>Medium Appliances</u> . Consistent with the terms of this Consent Decree, if			
19	Defendants decide to retrofit an existing Medium Appliance or purchase a new Medium			
20	Appliance, the Medium Appliance must use a Replacement Refrigerant or an "exempt			
21	substitute," as defined in 40 C.F.R. §§ 82.152 and 82.154(a)(1).			
22	C. Refrigerant Compliance Plan			
23	19. No later than February 28, 2019, Defendants shall implement the Refrigerant			
24	Compliance Plan ("RCP") attached as Appendix A to this Consent Decree, in accordance with Consent Decree: United States v. Trident Seafoods, et. al. Environment and Natural Resources Division P.O. Box 7611, Washington, DC 20044-7611 13 (202) 305-0302			

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1	all provisions and schedules therein. In the event of a conflict between the RCP and the terms of		
2	this Consent Decree, the terms of the Decree shall control.		
3	20. Notwithstanding any revisions pursuant to Paragraph 21 Defendants may make		
4	the RCP, the RCP shall at all times include, at a minimum, the following components:		
5	a. Procedures for completing and reporting the results of Comprehensive		
6	Leak Tests and Inspections that conform to the requirements of Paragraphs 28 through 30.		
7	b. Procedures for completing and reporting the results of Routine Leak		
8	Detection that conform to the requirements of Paragraphs 31 through 33.		
9	c. Procedures for completing and reporting the results of Leak Inspections		
10	that conform to the requirements of Paragraphs 34 through 38.		
11	d. A requirement to take appropriate corrective action (including, but not		
12	limited to, leak repair) that conforms to the requirements of Paragraph 39 whenever a leak in a		
13	Large Appliance is identified.		
14	e. Procedures for tracking leaks of Covered Refrigerant from Plate Freezers		
15	that conform to the requirements of Paragraphs 40 and 41.		
16	f. Procedures for employees or contractors to calculate the Full Charge of		
17	each Large Appliance in accordance with Paragraph 11.p.		
18	g. Procedures for maintaining original records, as clarified in Paragraph 45,		
19	generated in the performance of tasks required by the RCP;		
20	h. Procedures for maintaining fluorescent dye, as applicable, in each Large		
21	Appliance;		
22	i. Procedures for keeping records of and, as necessary, reporting to		
23	Defendants' senior managers and/or EPA of:		
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1	(1) All refrigerant purchases for, and any transfers between, additions to,	
2	and removals from any Large Appliance;	
3	(2) All Covered Refrigerant losses or releases, whether due to leaks or other	
4	causes, from Large Appliances;	
5	(3) Large Appliance Full Charge determinations;	
6	(4) Large Appliance Leak rate calculations, which must use the Annualizing	
7	Method described at 40 C.F.R. § 82.152 as option (1) under "Leak Rate";	
8	(5) All Leak Inspections required by Paragraphs 34 through 38. For the	
9	purposes of keeping records of the Leak Inspections required by Paragraph 34, Defendants shall	
10	indicate which Components are Pumped-out and Isolated or Pumped Down;	
11	(6) All leak repair attempts, initial and follow-up verification testing of leak	
12	repairs, and as needed, retrofit or retirement plans and activities (see 40 C.F.R. §§ 82.156(i)(6);	
13	82.157(c), (h), and (i));	
14	(7) Each occasion in which a Fixed Leak Detection System required by	
15	Paragraph 31 alarms at 100 ppm or higher; and	
16	(8) Each addition of fluorescent dye in Large Appliances.	
17	j. Modifications to Large Appliances, including documentation of the effect,	
18	if any, of the additions or removals of any Components on the appliance's Full Charge.	
19	k. A requirement for employee training that, at a minimum, meets the	
20	requirements of Paragraphs 42 and 43.	
21	1. Identification of responsibilities of individual employees and managers at	
22	different levels, as well as contractors, with regard to Large Appliances and service activities,	
23	refrigerant management, recordkeeping and reporting.	
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1	m. A method to calculate the amount of refrigerant lost from each Large		
2	Appliance that incorporates the following principles:		
3	(1) Refrigerant loss calculations shall take into account leaks in appliances,		
4	human error in operating appliances, or intentional venting of an appliance.		
5	(2) Refrigerant that is added to an appliance to return it to normal operating		
6	characteristics and conditions shall be assumed to replace refrigerant lost, except when added as		
7	a result of a Seasonal Variance.		
8	n. Any other requirement that is necessary to maintain compliance with all		
9	applicable requirements of Section 608 of the Clean Air Act, 42 U.S.C. § 7671g, and its		
10	implementing regulations at 40 C.F.R. Part 82, Subpart F.		
11	21. Beginning January 1, 2019, Defendants shall review the RCP at least annually and		
12	revise it as necessary to comply with Paragraphs 15 and 20, as part of a Corrective Action Plan		
13	submitted pursuant to Paragraph 66, or as necessary to account for changes in technology or		
14	circumstances. Defendants shall submit the revised RCP in accordance with Section XI		
15	(Reporting) of this Decree and shall implement all revisions, unless EPA takes action pursuant to		
16	Paragraph 22.a or 22.b below.		
17	22. The revised RCP is subject to EPA's review and disapproval. After reviewing the		
18	RCP, EPA may take any of the following actions:		
19	a. Disapprove, in writing, the RCP, in whole or in part;		
20	b. Provide edits, in writing, to the RCP; or		
21	c. Take no action.		

1	23. If EPA disapproves the revised RCP in whole or in part pursuant to Paragraph				
2	22.a, Defendants shall, within forty-five (45) Days or such other time as the Parties agree to in				
3	writing, correct all deficiencies and resubmit the revised RCP, or disapproved portion thereof.				
4	24. If EPA disapproves the revised RCP in part pursuant to Paragraph 22.a, then for				
5	other sections of the revised RCP that EPA determines are technically severable from any				
6	disapproved portions Defendants shall, upon written direction from EPA, take all actions				
7	required by the portions of the revised RCP that the EPA has not disapproved, subject to				
8	Defendants' right to dispute only the disapproved portions, under Section XV (Dispute				
9	Resolution).				
10	25. If EPA provides edits pursuant to Paragraph 22.b, Defendants shall, within forty-				
11	five (45) Days or such other time as the Parties agree to in writing, incorporate EPA's edits and				
12	resubmit the revised RCP.				
13	26. If the revised RCP resubmitted pursuant to Paragraphs 23 or 25, or portion				
14	thereof, is disapproved in whole or in part, or does not incorporate EPA's edits, EPA may again				
15	require Defendants to correct any deficiencies or incorporate edits in accordance with Paragraph				
16	22.a or 22.b, subject to Defendants' right to invoke Dispute Resolution and the right of EPA to				
17	seek stipulated penalties.				
18	27. Any stipulated penalties applicable to the original RCP submission, as provided in				
19	Section XIII, shall accrue during the forty-five (45) Day or other specified period set forth in				
20	Paragraph 23 or 25, but shall not be payable unless the resubmission is untimely or is				
21	disapproved in whole or in part; provided that, if the original submission was so deficient as to				
22	constitute a material breach of Defendant's obligations under the Decree, any stipulated penalties				

- demanded that are applicable to the original submission shall be due and payable
- 2 notwithstanding any subsequent resubmission.

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D. <u>Comprehensive Leak Tests and Inspections</u>

- 4 28. Large Appliances with a Full Charge of 5,000 or more pounds of Class I or Class
- 5 II refrigerant. At least once each Calendar Year beginning January 1, 2019, Defendants shall
- 6 evacuate each Large Appliance with a Full Charge of 5,000 or more pounds of Class I or Class II
- 7 refrigerant to the level specified in 40 C.F.R. § 82.156, Table 1. Defendants shall then pressurize
- 8 the entire system to a pressure in excess of atmospheric pressure that is sufficient to check for
- 9 and identify leaks in accordance with Paragraph 37. Each comprehensive leak test and inspection
- 10 conducted in accordance with this Paragraph shall be conducted at least six months apart from its
- 11 prior and subsequent test and inspection. Nothing in this Paragraph shall be construed to limit
- Defendants' ability to conduct additional comprehensive leak tests and inspections beyond those
- 13 required by this Paragraph.
- Large Appliances with a Full Charge of between 50 and 5,000 pounds of Class I
- or Class II refrigerant.
- a. At least once every three calendar years beginning January 1, 2019,
- Defendants shall evacuate each Large Appliance with a Full Charge of between 50 and 5,000
- pounds of Class I or Class II refrigerant to the level specified in 40 C.F.R. § 82.156, Table 1.
- 19 Defendants shall then pressurize the entire system to a pressure in excess of atmospheric pressure
- that is sufficient to check for and identify leaks in accordance with Paragraph 37.
- b. In each calendar year in which Defendants do not follow the procedures
- set forth in Paragraph 29.a, beginning January 1, 2019, Defendants shall conduct a
- 23 comprehensive leak test and inspection as follows: Defendants shall first inspect the system in an

- idle state with pressure equalized in all parts of the system at the ambient temperature. After a
- 2 full inspection in accordance with Paragraph 37, Defendants shall increase pressure of the system
- 3 high side to a pressure in excess of idle system pressure that is sufficient to check for and
- 4 identify leaks and complete an inspection of the system high side in accordance with Paragraph
- 5 37. The comprehensive leak tests and inspections conducted in accordance with this Paragraph
- 6 shall be conducted at least six months apart from the prior and subsequent test and inspection.
- 7 Nothing in this Paragraph shall be construed to limit Defendants' ability to conduct additional
- 8 comprehensive leak tests and inspections, beyond those required by this Paragraph.
- 9 30. Defendants shall report any comprehensive leak tests and inspections undertaken
- pursuant to Paragraphs 28, 29.a and 29.b above in accordance with Section XI (Reporting
- Requirements), and shall repair any leaks discovered pursuant to Paragraphs 28, 29.a and 29.b in
- accordance with the procedures laid out in Paragraph 39.

13 E. Routine Leak Detection

- 14 31. Leak Detectors and Fluorescent Dye. Defendants shall install Fixed Leak
- 15 Detection and add fluorescent dye to Large Appliances:
- a. With a Full Charge of 5,000 or more pounds of Class I or Class II
- 17 refrigerant: by January 1, 2019;
- b. With a Full Charge of between 50 and 5,000 pounds of Class I or Class II
- 19 refrigerant located on a Vessel: when the Vessel is undergoing triennial maintenance in dry dock
- 20 or by January 31, 2022, whichever is earlier;
- c. With a Full Charge of between 50 and 5,000 pounds of Class I or Class II
- refrigerant located at a Facility: by January 31, 2022; and

1	d. With a Full Charge greater than 50 pounds of Class I or Class II			
2	refrigerant that Defendants install at any Vessel or Facility during the pendency of the Consent			
3	Decree: within sixty (60) Days of installation of said appliance.			
4	32. Defendants shall complete the installation of Fixed Leak Detection Systems and			
5	the additions of fluorescent dye in accordance with the manufacturer's instructions.			
6	33. Defendants shall calibrate, maintain, and operate each Fixed Leak Detection			
7	System while Components in the area covered by the Detection System contain refrigerant,			
8	maintain fluorescent dye in each Large Appliance, and maintain an ultraviolet (UV) light at each			
9	Vessel and Facility at which Defendants use fluorescent dye. The requirement to operate each			
10	Fixed Leak Detection System shall not apply to Fixed Leak Detection Systems located on			
11	Vessels during periods of Extended Lay-up if the Vessel is not connected to shore power.			
12	F. <u>Leak Inspections</u>			
13	34. <u>Large Appliances with a Full Charge of 5,000 or more pounds of Class I or Class</u>			
14	II refrigerant on Vessels. Beginning January 1, 2019, for each Large Appliance with a Full			
15	Charge of 5,000 or more pounds of Class I or Class II refrigerant at any Vessel or Facility, when			
16	each such Large Appliance is charged with refrigerant, Defendants shall conduct inspections on			
17	each Component of the Large Appliance, except those Components that are Pumped-out and			
18	Isolated or Pumped Down, subject to the limitations of 40 C.F.R. § 82.157(g)(3), on a rolling			
19	basis, such that each Component in operation is inspected at least once every fifteen (15) Days in			
20	accordance with Paragraph 37. During an Extended Lay-up, Defendants are not required to			
21	inspect Components that are Pumped-out and Isolated or Pumped Down. During an Extended			
22	Lay-up, Defendants shall inspect any Component which has not been Pumped-out and Isolated			
23	or Pumped Down at least once every thirty (30) Days.			

1	25. <u>Large Appliances with a Full Charge of between 50 and 5,000 pounds of Class I</u>			
2	or Class II refrigerant. For each Large Appliance with a Full Charge of between 50 and 5,000			
3	pounds of Class I or Class II refrigerant on a Vessel, Defendants shall conduct an inspection of			
4	each system in accordance with Paragraph 37 at least once per Calendar year beginning January			
5	1, 2019. This inspection shall occur, when feasible, prior to pumping the system down before an			
6	Extended Lay-up period. For each such Large Appliance at a Facility, Defendants shall conduct			
7	inspections of each system in accordance with Paragraph 37 at least once per Calendar year.			
8	36. Beginning January 1, 2019, Defendants shall also conduct inspections of			
9	Components in the area of a Fixed Leak Detection System of each Large Appliance with a Full			
10	Charge of between 50 and 5,000 pounds of Class I or Class II refrigerant at a Facility or on a			
11	Vessel:			
12	a. within 48 hours after the detector alarms at a level of 100 ppm or higher,			
13	or, for Vessels that are on an Extended Lay-up, within 96 hours of when Defendants knew or			
14	should have known that the detector had alarmed at a level of 100 ppm or higher; and			
15	b. within 48 hours after any addition of Class I or Class II refrigerant,			
16	unless:			
17	(1) such addition is to return the Large Appliance to normal operating			
18	characteristics and conditions following a comprehensive leak check performed consistent with			
19	Paragraph 29; or			
20	(2) a leak inspection and repair is required by 40 C.F.R. § 82.157, in which			
21	case the inspection and repair shall be conducted in accordance with 40 C.F.R. § 82.157.			
22	37. For the inspections described in Paragraphs 28, 29, and 34 through 36 above,			
23	Defendants shall conduct appropriate inspections by using one of the following methods: halide			
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1 torch, electronic detector, ultrasonic detector, fluorescent dye/ultraviolet, soapy water, any of the 2 tests named in the definition of "follow-up verification test" included in 40 C.F.R. § 82.152, or 3 any other inspection method that the Parties agree to in writing. The person conducting the 4 inspection on behalf of Defendants shall be trained on how to use the inspection method(s) or 5 work under the direct supervision of a person trained on how to use the inspection method(s). 6 38. Video Inspections. Beginning January 1, 2019, Defendants shall make video 7 recordings (or series of recordings) on or at each Vessel or Facility with a Large Appliance 8 containing Class I or Class II refrigerant that displays an accurate time-stamp and records, with 9 sufficient detail and clarity, a qualified individual(s) conducting Leak Inspections, Leak Repairs 10 (if applicable), Leak Repair Verifications (if applicable), and the other activities listed in 11 Paragraph 78.b (if applicable) on one or more Large Appliances. Video inspections are to be 12 completed according to the following schedules and additional requirements: 13 Defendants will complete at least one Video Inspection every year at each a. 14 Vessel or Facility with one or more Large Appliance with a Full Charge of 5,000 or more pounds 15 of Class I or Class II refrigerant. The Video Inspection for these Facilities or Vessels must record 16 the inspections of at least one Large Appliance with a Full Charge of 5,000 or more pounds of 17 Class I or Class II refrigerant and inspections of Plate Freezers, if present. 18 b. For all Vessels or Facilities with Large Appliances with a Full Charge of 19 between 50 and 5,000 pounds of Class I or Class II refrigerant, Defendants shall complete at 20 least one Video Inspection at each such Vessel or Facility by January 31, 2024, provided that 21 each year, Defendants will complete Video Inspections on at least five such Vessels or Facilities.

G. Leak Repair

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2 39. For each Large Appliance, Defendants shall repair all identified leaks of Class I or 3 Class II refrigerant that are visible and accessible (as those terms are used in 40 C.F.R. 4 § 82.157(g)(3)) regardless of how those leaks are discovered and regardless of the calculated 5 leak rate, within the later of (a) 30 Days; or (b) the applicable deadlines in 40 C.F.R. Part 82, 6 Subpart F. Defendants shall also comply with any and all requirements and deadlines set forth in 7 40 C.F.R. Part 82, Subpart F, pertaining to any leaks of Covered Refrigerant (other than Class I 8 or Class II refrigerant) from a Large Appliance. Defendants shall comply with all other 9 requirements of 40 C.F.R. Part 82, Subpart F, pertaining to these repairs, including performing 10 initial and follow-up verification tests. Defendants shall repair all identified leaks such that the 11 annual leak rate is brought below the applicable annual leak rate established for that type of 12 appliance in 40 C.F.R. Part 82, Subpart F. For purposes of calculating stipulated penalties pursuant to Paragraph 108.d, each Day after 30 Days, or after the applicable deadline in 40 13 14 C.F.R. Part 82, Subpart F, whichever is later, that the annual leak rate is not brought below the 15 applicable leak rate constitutes a separate violation. Whether the leak repair(s) have brought the 16 leak rate below the applicable leak rate must be confirmed by the leak rate calculation performed 17 upon the next refrigerant addition. The leaks will be presumed to be repaired if there is no further 18 refrigerant addition for twelve (12) months after the repair or if a leak inspection performed

H. Plate Freezer Leak Tracking System

40. Starting upon the Effective Date, when inspecting each Plate Freezer in accordance with Paragraph 34 above, or any other time when Defendants inspect Plate Freezers for leaks, Defendants shall document the inspection and all leaks found. Such documentation

consistent with Paragraphs 34 through 37, as applicable, does not find any leaks in the appliance.

- shall include the leak date and the exact location where the leak was found, including the freezer
- 2 number, plate number, plate or header fitting, hose number and hose type (liquid or suction), as
- 3 well as the steps taken to fix the leak (e.g. changing a hose) and any qualitative estimates of
- 4 refrigerant lost.
- 5 41. No later than June 30, 2019, Defendants shall develop and implement a database
- 6 ("Plate Freezer Leak Database") to store leak-related data obtained during a Plate Freezer
- 7 inspection. The Plate Freezer Leak Database shall include:
- 8 a. Data gathered related to Plate Freezer leaks found on inspections starting
- 9 upon the Effective Date. If qualitative information on estimated amount of refrigerant lost is
- documented for a particular leak as part of leak inspection documentation, it shall also be entered
- 11 into the database.
- b. Information retrieval functionality that allows comparison and filtering
- based on the information required to be tracked pursuant to Paragraph 40.
- 14 c. The ability to generate reports, including potential trending information.
- 15 I. <u>Training</u>
- 42. All employees of Defendants who charge Large Appliances with Covered
- 17 Refrigerant, remove Covered Refrigerant from Large Appliances, service, inspect, or maintain
- Large Appliances, or complete records or reports related to Covered Refrigerant, shall undergo
- training on refrigerant management on at least an annual basis in accordance with the procedures
- set forth in Appendix A. Initial, annual training for active employees shall be completed no later
- 21 than February 28, 2019. Any new employees hired or former employees reactivated whose job
- 22 tasks include duties listed in this paragraph shall undergo training on refrigerant management no
- later than February 28, 2019, or within sixty (60) Days of the employee's first day of

1 employment or reactivation, whichever is later. After initial training is complete, each employee 2 whose job tasks include duties listed in this paragraph shall receive annual training once per calendar year. 3 4 43. Such training shall include physical demonstrations, on-line tutorials, on-the-job 5 training, or other training methods, as appropriate to the duties of each employee, and shall 6 address: 7 Relevant legal requirements under Section 608 of the Clean Air Act, a. 8 42 U.S.C. § 7671g, and its implementing regulations at 40 C.F.R. Part 82, Subpart F; 9 **b**. Defendant's policies and procedures as described in the RCP, including, as 10 appropriate, physical demonstrations of conducting leak detection and repair activities using the 11 procedures; and 12 Employees' and contractors' individual responsibilities as described in the c. 13 RCP. 14 J. **Electronic Records Portal** 15 44. No later than March 31, 2019, Defendants shall implement an Electronic Records 16 Portal ("Portal") that allows for the electronic availability of all records required under 40 C.F.R. 17 Part 82, Subpart F and the Consent Decree, including all records required by Paragraph 20.i. The 18 Electronic Records Portal shall be a secure, cloud-based system (e.g. Microsoft Sharepoint) that 19 automatically backs up all uploaded files. For each Large Appliance with a Full Charge of 20 between 50 and 5,000 pounds of Covered Refrigerant, Defendants shall ensure that all records 21 are uploaded to the Portal no less frequently than once per month. For each Large Appliance

uploaded to the Portal no less frequently than once per week.

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with more than 5,000 pounds of Covered Refrigerant, Defendants shall ensure that records are

- 1 45. Defendants shall maintain all records set forth in Paragraph 44 above in their 2 original form. Defendants may correct errors, or create separate, supplemental records to ensure 3 compliance with the requirements of this Consent Decree and with applicable law, but shall not 4 erase, change, or replace the original records, unless the original entry and the correction are both 5 legible on the original record or, in the case of electronic records, information on any corrections, 6 including the original entry, the revised entry, the reason for the revision, and the date of the 7 revision are noted in the electronic record or in a corrections log. Any supplemental records 8 created must accurately reflect the date and circumstances under which they were created. 9 Original form includes scanned copies of original documents. Any paper records created must be 10 retained pursuant to Paragraph 138 below, even if the document or its content have also been 11 converted to electronic form.
- 12 VI. RETROFITS OF LARGE APPLIANCES WITH A FULL CHARGE OF 5,000 OR 13 MORE POUNDS OF CLASS I OR CLASS II REFRIGERANT
- 14 46. Consistent with the terms of this Consent Decree, Defendants must retrofit or
 15 retire any Large Appliances with a Full Charge of 5,000 or more pounds of Class I or Class II
 16 refrigerant on each of the following Vessels in accordance with the following schedule:

Retrofit or Retirement Date	Vessel
By January 31, 2022	Either the Independence or the Island Enterprise
By January 31, 2024	Eastern Wind
By January 31, 2026	Both the Independence and the Island Enterprise
By January 31, 2029	Seattle Enterprise and Kodiak Enterprise

- 17 Each Large Appliance that is retrofitted in accordance with this Paragraph shall be retrofitted to
- 18 use an "exempt substitute," as defined in 40 C.F.R. §§ 82.152 and 82.154(a)(1).

1 47. Any Large Appliance Defendants purchase or otherwise acquire during the 2 pendency of this Consent Decree to replace any of the Large Appliances on the Vessels 3 identified in Paragraph 46, or the refrigeration capacity of those Vessels, that does not already 4 use an exempt substitute, must be retrofitted within two (2) years of purchase or acquisition to 5 use an "exempt substitute," as defined in 40 C.F.R. §§ 82.152 and 82.154(a)(1), as its refrigerant. 6 VII. SUPPLEMENTAL ENVIRONMENTAL PROJECT 7 48. Defendants shall implement a Supplemental Environmental Project ("SEP"), the 8 SEP Small Vessel Retrofits, in accordance with all provisions of this Section of this Consent 9 Decree. To complete the SEP, Defendants shall retrofit all Large Appliances on the Aldebaran, 10 the Marcy J, the Northern Patriot, and the Gladiator (collectively, "SEP Vessels") to a 11 Replacement Refrigerant or "exempt substitute," as defined in 40 C.F.R. §§ 82.152 and 12 154(a)(1). The SEP shall be completed by January 31, 2022, in accordance with the following 13 schedule:

Retrofit or Retirement Date	Number of SEP Vessels
By January 31, 2020	One SEP Vessel
By January 31, 2021	Three SEP Vessels
By January 31, 2022	Four SEP Vessels

49. Defendants are responsible for the satisfactory completion of the SEP in accordance with the requirements of this Decree. "Satisfactory completion" means timely completion of retrofits to all Large Appliances in accordance with the schedule described in Paragraph 48 above. Defendants may use contractors or consultants in planning and implementing the SEP.

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1	50.	With	regard to the SEP, Defendants certify the truth and accuracy of each of the
2	following:		
3		a.	that all cost information provided to EPA in connection with EPA's
4	approval of t	he SEP	is complete and accurate and that Defendants in good faith estimate that the
5	cost to implement the SEP is \$955,200;		
6		b.	that the Large Appliances described in Paragraph 48 above have never
7	been in violation of the venting prohibitions and leak repair requirements of Section 608 of the		
8	CAA and 40 C.F.R. Part 82, Subpart F;		
9		c.	that, as of the date of executing this Decree, Defendants are not required to
10	perform or develop the SEP by any federal, state, or local law or regulation and are not required		the SEP by any federal, state, or local law or regulation and are not required
11	to perform or	r develo	op the SEP by agreement, grant, or as injunctive relief awarded in any other
12	action in any	forum;	;
13		d.	that the SEP is not a project that Defendants were planning or intending to
14	construct, perform, or implement other than in settlement of the claims resolved in this Decree;		
15		e.	that Defendants have not received and will not receive credit for the SEP
16	in any other enforcement action;		
17		f.	that Defendants will not receive any reimbursement for any portion of the
18	SEP from any other person; and		
19		g.	that Defendants are not a party to any open federal financial assistance
20	transaction that is funding or could fund the same activity as the SEP described in Paragraph 48.		
21	For purposes of these certifications, the term "open federal financial assistance transaction"		
22	refers to a grant, cooperative agreement, loan, federally-guaranteed loan guarantee, or other		
23	mechanism f	or prov	riding federal financial assistance whose performance has not yet expired.
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1	51.	SEP Completion Report. No later than February 28, 2022, Defendants shall
2	submit a SEP	Completion Report to the United States, in accordance with Section XIX of this
3	Consent Decr	ree (Notices). The SEP Completion Report shall contain the following information:
4		a. a detailed description of the SEP as implemented;
5		b. documentation that the Large Appliances located on the Vessels listed in
6	Paragraph 48	have been retrofitted to use a Replacement Refrigerant or "exempt substitute," as
7	defined in 40	C.F.R. §§ 82.152 and 154(a)(1) by the dates required in Paragraph 48.
8		c. a description of any problems encountered in completing the SEP and the
9	solutions ther	eto;
10		d. an itemized list of all eligible SEP costs expended;
11		e. certification that the SEP has been fully implemented pursuant to the
12	provisions of	this Decree; and
13		f. a description of the environmental and public health benefits resulting
14	from impleme	entation of the SEP (with a quantification of the benefits and pollutant reductions, if
15	feasible).	
16	52.	EPA may, in its sole discretion, require information in addition to that described
17	in the precedi	ng paragraph, in order to evaluate Defendants' completion report.
18	53.	After receiving the SEP Completion Report, the United States shall notify
19	Defendants w	hether or not Defendants have satisfactorily completed the SEP. If Defendants have
20	not completed	d the SEP in accordance with this Consent Decree, stipulated penalties may be
21	assessed unde	er Section XIII (Stipulated Penalties) of this Consent Decree.

1	54.	Disputes concerning the satisfactory performance of the SEP and the amount of
2	eligible SEP	costs may be resolved under Section XV (Dispute Resolution) of this Decree. No
3	other dispute	s arising under this Section shall be subject to Dispute Resolution.
4	55.	Each submission required under this Section shall be signed by an official with
5	knowledge o	f the SEP and shall bear the certification language set forth in Paragraph 96.
6	56.	Any public statement, oral or written, in print, film, or other media made by
7	Defendants n	naking reference to the SEP under this Decree shall include the following language:
8	"This project was undertaken in connection with the settlement of an enforcement action, United	
9	States v. Tric	ent Seafoods Corporation, et al., taken on behalf of the U.S. Environmental
10	Protection A	gency under the Clean Air Act."
11	57.	For federal income tax purposes, Defendants agree that they will neither capitalize
12	into inventor	y or basis nor deduct any costs or expenditures incurred in performing the SEP.
13	58.	If Defendants satisfactorily complete the SEP, but do not spend the full amount of
14	the estimate s	set forth in Paragraph 50.a above, and if EPA determines that the amount remaining
15	reasonably co	ould be applied toward another SEP, Defendants shall retrofit any Large Appliances
16	on an additio	nal Vessel(s) with a Replacement Refrigerant or "exempt substitute," as defined in
17	40 C.F.R. §§	82.152 and 154(a)(1).
18		VIII. ANNUAL REFRIGERANT LOSS CAP PROGRAM
19	59.	Beginning January 1, 2019, Defendants shall implement the Annual Refrigerant
20	Loss Cap Pro	gram ("Program") set forth in this Section, in accordance with all provisions and
21	schedules the	rein. The Program shall cover all Large Appliances with Class I or Class II
22	refrigerant at	any Facility or Vessel, including any such Large Appliances acquired after the
23	Effective Dat	te ("Program Appliances").
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1	60. Definitions. For the purposes of this Section the following definitions shall apply
2	a. "Program Full Charge" shall mean the charge determination, for purposes
3	of this Section only, calculated using the methods in Paragraph 63.
4	b. "Reporting Year" shall mean the calendar year immediately preceding the
5	current calendar year.
6	c. "Refrigerant Year" or "RY" shall mean:
7	(1) For Program Appliances with over 5,000 pounds of refrigerant that
8	Defendants do not transfer to another entity during the Reporting Year: the time period between
9	the date refrigerant is added to an empty system (start of Refrigerant Year) and the date that
10	refrigerant is completely evacuated from the Program Appliance (end of Refrigerant Year).
11	(2) For Program Appliances with over 5,000 pounds of refrigerant that
12	Defendants transfer to another entity during the Reporting Year: the period between the date
13	refrigerant is added (start of Refrigerant Year) and the date the relevant Defendant transfers the
14	Program Appliance pursuant to Section II (Applicability) of this Consent Decree (end of
15	Refrigerant Year).
16	(3) For Program Appliances with between 50 and 5,000 pounds of
17	refrigerant: from January 1 through December 31 (calendar year), or from January 1 up to the
18	date the Program Appliance is transferred to another entity pursuant to Section II (Applicability)
19	of this Consent Decree.
20	d. "Seasonal Variance" shall have the meaning described in Paragraph
21	63.b(2) below.

1	61. Release Limits. In each Reporting Year, if Class I or Class II refrigerant is			
2	released from Defendants' Program Appliances in an amount that equals or exceeds the			
3	following Release Limits, then Defendants shall undertake the following actions:			
4	a. If the amount of Class I and Class II refrigerant released from all Program			
5	Appliances exceeds 17.5%, as calculated below, Defendants shall develop and execute a			
6	Corrective Action Plan in accordance with Paragraph 66.			
7	b. If the amount of Class I and Class II refrigerant released from all Program			
8	Appliances exceeds 25%, as calculated below, in addition to the Corrective Action Plan required			
9	by Paragraph 61.a, Defendants shall be liable for stipulated penalties in accordance with			
10	Paragraph 112.			
11	62. <u>Determining Amount Released</u> . No later than February 28 of each calendar year			
12	beginning in 2020, Defendants shall determine the amount of Class I and Class II refrigerant			
13	released during the most recent Reporting Year from all Program Appliances by summing the			
14	amount lost from each Program Appliance with a Refrigerant Year that ended in the Reporting			
15	Year and dividing that number by the total sum of the Program Full Charges for each Program			
16	Appliance with a Refrigerant Year that ended in the Reporting Year and multiplying by 100.			
17	Defendants shall calculate the individual losses and Program Full Charges from the Program			
18	Appliances as follows:			
19	a. The amount of refrigerant lost from a Program Appliance during the			
20	Refrigerant Year shall be deemed lost during the Reporting Year in which the Refrigerant Year			
21	ends, unless there was no Refrigerant Year ending in the Reporting Year, in which case any			
22	amount of refrigerant lost during the Reporting Year shall be zero (0) and the unit will not have			
23	its Program Full Charge included in any part of the annual loss calculation. If two (2) Refrigerant			
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1	Years end in the same Reporting Year, the amount of refrigerant lost from a Program Appliance		
2	during the Reporting Year will include all losses from each Refrigerant Year ending in the		
3	Reporting Year. For example:		
4	(1) Example 1. If a Program Appliance has a Refrigerant Year that starts on		
5	December 17, 2018 and ends on December 5, 2019, any amount of refrigerant lost during this		
6	time period shall be attributable to the 2019 Reporting Year;		
7	(2) Example 2. If a Program Appliance has a Refrigerant Year that starts on		
8	December 1, 2017, and ends on January 16, 2019, any amount of refrigerant lost during this time		
9	period shall be attributable to the 2019 Reporting Year along with any other Refrigerant Years		
10	ending in 2019 and there will be no losses reported for the 2018 Reporting Year;		
11	(3) Example 3. If a Program Appliance has a Refrigerant Year that starts on		
12	January 17, 2019 and ends on December 5, 2019, any amount of refrigerant lost during this time		
13	period shall be attributable to the 2019 Reporting Year.		
14	(4) Example 4. If a Program Appliance has a Refrigerant Year that starts on		
15	December 28, 2018 and ends on September 5, 2019, any amount of refrigerant lost during this		
16	time period shall be attributable to the 2019 Reporting Year.		
17	b. Calculation for Large Program Appliances with a Full Charge of 5,000 or		
18	more pounds of Class I or Class II refrigerant: the Amount released during a Refrigerant Year		
19	shall be determined by the following formula:		
20	Amount Released in RY $X = [Additions (RY X)] - [Removals (RY X)]$		
21	Where:		
22	(1) "Additions (RY X)" is the total amount of all Class I or Class II		
23	refrigerant added to the Large Appliance during Refrigerant Year X for any reason, including		
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1	initial charging of the Large Appliance, equipment upgrades and expansions, and replacing
2	refrigerant lost due to leaks or other causes.
3	(2) "Removals (RY X)" is the total amount of all Class I or Class II
4	refrigerant removed from the Large Appliance during RY X, including evacuation at the end of
5	the Refrigerant Year, removal of equipment or Components, or conversion or retirement of the
6	Large Appliance. Any such removals must be supported by appropriate service records.
7	c. <u>Calculation for Large Program Appliances with a Full Charge of between</u>
8	50 and 5,000 pounds of Class I or Class II refrigerant: the Amount Released in a Refrigerant
9	Year shall be the total amount of Class I or Class II refrigerant added to the Large Appliance, for
10	any reason, during that Refrigerant Year, minus the amount added for expansions or
11	modifications of the Large Appliance and for qualified Seasonal Variances.
12	63. Calculating the Program Full Charge for Program Appliances. For the
13	purposes of this Section, the Program Full Charge for Program Appliances shall be calculated in
14	accordance with the following:
15	a. <u>Calculation for Program Appliances with a Full Charge of 5,000 or more</u>
16	pounds of Class I or Class II refrigerant: Program Full Charge for a Refrigerant Year will be the
17	amount of refrigerant added to the system at the beginning of the Refrigerant Year.
18	b. <u>Calculation for Large Program Appliances with a Full Charge of between</u>
19	50 and 5,000 pounds of Class I or Class II refrigerant: Program Full Charge will be calculated at
20	the end of the Refrigerant Year according to one of the following methods, in descending order:
21	(1) If a full drain and addition has been completed within the past 36
22	months, then Defendants shall use the amount of refrigerant added to a Program Appliance to
23	return the Program Appliance to a Full Charge following a full evacuation;
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1	(2) If an actual measurement of refrigerant has occurred within the past 36
2	months but Defendants have documented a change in external factors that resulted in the need
3	for more refrigerant, then Defendants shall use the weighted average of refrigerant in the
4	Program Appliance. A Seasonal Variance Program Full Charge is not permitted where any leaks
5	have been found, whether repaired or not. When permitted, the Seasonal Variance Program Full
6	Charge is calculated as:
7	$Program\ Full\ Charge = Charge_A imes rac{Time_A}{365} + Charge_B imes rac{Time_B}{365}$
8	Where:
9	Charge _A = the pounds of refrigerant in the system at the beginning of the
10	Refrigerant Year.
11	Time _A = the number of Days between the beginning of the Refrigerant
12	Year and the date refrigerant is added for a qualified Seasonal Variance,
13	plus any additional Days in the Refrigerant Year for which the system is
14	returned to ChargeA.
15	Charge _B = the pounds of refrigerant in the system at the beginning of the
16	Refrigerant Year plus the amount added for the Seasonal Variance.
17	Time _B = the number of Days after refrigerant is added for a qualified
18	Seasonal Variance, plus any additional Days in the Refrigerant Year for
19	which the system returns to ChargeB; or
20	(3) If neither (1) nor (2) applies, then an engineering estimate by a qualified
21	engineer of the amount of refrigerant within the Program Appliance.
22	64. New Large Appliances. Any Large Appliances containing Class I or Class II
23	refrigerant Defendants purchase or otherwise acquire at any Facility or Vessel during the Consent Decree: UNITED STATES DEPARTMENT OF JUSTICE United States v.Trident Seafoods, et. al. Environment and Natural Resources Division P.O. Box 7611, Washington, DC 20044-7611

1	pendency of this Consent Decree shall also be subject to the terms of this Program beginning
2	with the first full Calendar Year following the date such Large Appliance is put into service. The
3	Amount Released from any new Large Appliance shall be determined using one of the
4	calculations in Paragraph 62. Program Full charge of a new Large Appliance shall be calculated
5	in accordance with the procedures set forth in Paragraph 63.a or 63.b, above.
6	65. Program Reporting . In the annual reporting submitted pursuant to Section XI
7	(Reporting Requirements), Defendants shall report the following information regarding the
8	Program:
9	a. <u>Reporting Year</u> . With regard to the Reporting Year, Defendants shall
10	report, and provide supporting documentation for, the following:
11	(1) The Program Full Charge of each Program Appliance, documentation
12	that any changes in Program Full Charge from Seasonal Variance conform to the requirements of
13	Paragraph 63.b(2), and documentation of other expansions and modifications that affect the
14	Program Full Charge;
15	(2) A notation of any Program Appliance that did not end a Refrigerant
16	Year in the applicable Reporting Year and therefore will not be included in the calculation;
17	(3) The dates that the Refrigerant Year begins and ends, for each Program
18	Appliance with a Full Charge of 5,000 or more pounds of refrigerant;
19	(4) The Amount Released from each Program Appliance during the calendar
20	year using the appropriate calculation described in Paragraph 62; and
21	(5) A calculation of the total pounds of refrigerant released cumulatively
22	from all Program Appliances for the relevant Reporting Year and whether, and by how many
23	

1	pounds, the cumulative Amount Released equals or exceeds either of the applicable Release
2	Limits described in Paragraph 61.
3	b. <u>Current Calendar Year</u> . With regard to the calendar year that is underway
4	when the Annual Report is submitted, Defendants shall report the Program Full Charge that has
5	been set for each Program Appliance at the start of the current calendar year.
6	66. <u>Corrective Action Plan</u> . If Class I or Class II refrigerants are released from
7	Defendants' Program Appliances during the previous calendar year in an amount exceeding the
8	Corrective Action Release Limit in Paragraph 61.a, Defendants shall submit by April 1 of the
9	current calendar year a Corrective Action Plan that describes Defendants' strategy for preventing
10	exceedances of the Corrective Action Release Limit in the current Calendar Year. The Corrective
11	Action Plan shall at a minimum address the following:
12	a. The identified cause(s) of the exceedance of the Corrective Action Release
13	Limit;
14	b. A description of Defendants' causal analysis process, such as a root cause
15	analysis, that identified the cause(s) of the exceedance of the Corrective Action Release Limit;
16	c. Proposed actions to address each cause identified in the causal analysis
17	process, including an assessment of the efficacy of each of the following corrective actions:
18	(1) Planned or completed retrofits or retirements of Program Appliances;
19	(2) Proposal for revisions to Defendants' RCP, including additional
20	comprehensive leak tests and leak inspection;
21	(3) Proposals for installation of additional or different Fixed Leak Detection
22	Systems;
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1	(4) An analysis of the data from the Plate Freezer Leak Database, as
2	described in Paragraphs 40 and 41;
3	(5) Proposals for assessing the efficacy of the leak detection method, or
4	requiring different methods of leak inspections; and
5	(6) Proposals for hiring of additional staff or additional training.
6	IX. THIRD PARTY VERIFICATION
7	A. <u>Auditor Hiring Procedures</u>
8	67. In accordance with the procedures set forth below, Defendants shall hire an
9	independent Third Party Auditor ("Auditor") to perform all the duties set forth in Paragraph 75
10	through 83, in order to assess Defendants' compliance with the requirements of this Consent
11	Decree, Section 608 of the CAA, and 40 C.F.R. Part 82, Subpart F.
12	68. Defendants shall give each Auditor a copy of this Consent Decree and all
13	appendices, as well as all other information and access necessary to complete the Audits set forth
14	herein. Defendants' contract with the Auditor shall require the Auditor to perform all of the
15	duties in Paragraphs 75 through 83, and upon EPA's request, within a reasonable time and upon
16	reasonable notice, to be fully available to consult with EPA about Defendants and their
17	compliance with this Consent Decree, Section 608 of the CAA, and 40 C.F.R. Part 82, Subpart F.
18	Defendants shall bear all costs associated with the Auditor, cooperate fully with any reasonable
19	requests of the Auditor, and provide the Auditor with access, upon reasonable notice and taking
20	into account operational impacts, to all records, employees, contractors, Facilities and Vessels,
21	and Large Appliances that the Auditor deems reasonably appropriate to effectively perform the
22	duties described in Paragraphs 75 through 83. Defendants shall ensure that the Auditor(s)

1	conduct the Audits in accordance with the requirements set forth in Paragraphs /5 through 83 of
2	this Decree.
3	69. <u>Hiring Process</u> . By February 28, 2019, Defendants shall submit to the United
4	States the name and qualifications of two (2) or more proposed independent Third Party Auditors
5	that both Defendants and each Auditor candidate certify meet the following conditions:
6	a. The Auditor should have experience with CAA Section 608 and 40 C.F.R.
7	Part 82 regulations for industrial process refrigeration appliances, and experience with industrial
8	process refrigeration and commercial refrigeration design and maintenance;
9	b. The Auditor and its personnel have not been employed by Defendants or
10	any corporate affiliates of Defendants, have not conducted research and/or development for
11	Defendants, and have not provided advisory services of any kind (including but not limited to
12	design, construction, financial, engineering, legal, or consulting services) to Defendants or any of
13	their corporate affiliates, within the last five (5) years; and
14	c. The Auditor has not been involved in the development or construction of
15	any Large Appliance at any of Defendants' Facilities or Vessels.
16	70. Defendants shall not employ the Auditor and its personnel to provide any other
17	commercial, business, or voluntary services to Defendants for a period of at least three (3) years
18	following the Auditor's submittal of its final Auditor's report, and Defendants shall not provide
19	future employment to the Auditor or any of the Auditor's personnel who managed, conducted, or
20	otherwise participated in the Audits for a period of at least three (3) years following the
21	Auditor's submittal of its final Auditor's Report pursuant to Paragraph 83 below.
22	71. The United States will notify Defendants in writing whether it approves the
23	proposed Auditor(s). Within thirty (30) Days of United States' written approval of an Auditor,
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1 Defendants shall retain an approved Auditor to perform the activities set forth in Paragraphs 75

through 83. The contract for the auditing services shall include the restrictions described in

3 Paragraph 70.

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4 72. If the United States rejects the proposed Auditors, within twenty-one (21) Days of

receipt of the United States' notification, Defendants shall submit for approval the names and

qualifications of two (2) or more proposed alternative Auditors that meet the qualifications set

forth in Paragraph 69. The United States will review the proposed replacement in accordance

with Paragraph 71.

9 73. <u>Auditor Replacement Procedure:</u> If the United States has approved an Auditor and

the United States subsequently determines independently or at the request of Defendants that the

approved Auditor cannot satisfactorily perform the required Audits, within sixty (60) Days of

learning that the Auditor cannot satisfactorily perform the Audits, Defendants shall submit to the

United States for approval the name and qualifications of two (2) or more proposed replacement

Auditors that meet the qualifications set forth in Paragraph 69 above. The United States shall

review the proposed replacement Auditors in accordance with Paragraph 71. If Defendants and

the United States do not agree on the need to select a replacement Auditor, Defendants may

invoke the dispute resolution procedures in Section XV (Dispute Resolution) of this Decree.

74. Nothing in Paragraphs 69 through 73 precludes the United States from assessing

stipulated penalties for missed Audit deadlines associated with the need to replace an Auditor

unless Defendants successfully asserts that the inability of the Auditor to perform the required

Audit was due to a Force Majeure event in accordance with Section XIV (Force Majeure) of the

22 Consent Decree.

B. Audit Responsibilities

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2 75. The Auditor will comply with the procedures and requirements in this Section 3 IX.B relating to verification of Defendants' compliance with the requirements of this Consent 4 Decree, Section 608 of the CAA, and 40 C.F.R. Part 82, Subpart F. 5 76. Physical Audits. Beginning January 1, 2019, and until any Large Appliance 6 subject to this Paragraph has been retrofitted or retired (e.g., according to Paragraphs 46 and 47), 7 the Auditor will conduct annual Physical Audits to assess compliance at each Vessel or Facility 8 containing a Large Appliance with a Full Charge of 5,000 or more pounds of Class I or Class II 9 refrigerant. Within thirty (30) Days of the Auditor being retained, and by August 1 each year 10 beginning January 1, 2019, Defendants will provide the Auditor an anticipated annual schedule 11 for Seattle or Tacoma Vessel arrivals, and for planned system evacuation and pressure testing 12 timeframes for each Vessel with Large Appliances subject to this Paragraph. Within two (2) 13 weeks of receiving the Vessel schedule, the Auditor will send the Defendants and EPA a 14 schedule for Physical Audits. The Auditor will select and audit at least 50% of Vessels with 15 Large Appliances covered by this Paragraph each year, with each Vessel audited at least every 16 two (2) years. Vessel crew will be available upon arrival and for up to three (3) Days after arrival 17 if prearranged by the Auditor. Periodic updates to the schedule may be provided if significant 18 changes are made to the schedule. Defendants will confirm the Vessel arrival schedule with the 19 Auditor thirty (30) Days prior to arrival of the Vessel, and again seven (7) Days prior to arrival 20 of the Vessel. Schedules for pressure testing will be confirmed with the Auditor at the time the 21 contractor is scheduled to perform the pressure test, and the Auditor will be updated of any 22 changes to the schedule.

1	77. During a Physical Audit, the Auditor will visit the Vessel or Facility under audit,
2	observe leak detection procedures conducted on Large Appliances (if applicable), leak rate
3	calculation (if applicable), leak repair and verification (if applicable), recordkeeping practices,
4	and interview available employees regarding practices and procedures at that Vessel or Facility
5	related to recordkeeping, maintaining and repairing Large Appliances and related equipment, and
6	refrigerant acquisition, storage, transfer, use, and disposal.
7	78. <u>Video Audits</u> . Beginning January 1, 2019, until any Large Appliance subject to
8	this Paragraph has been retrofitted or retired, Defendants shall ensure that the Auditor conducts
9	an Audit of Defendant's video inspections (Paragraph 38), as follows:
10	a. Defendants will make all Video Inspections conducted available to the
11	Auditor no later than ninety (90) Days after a Video Inspection has been completed. The Auditor
12	shall review each Video Inspection within sixty (60) Days of receipt of a Video Inspection.
13	b. The Auditor will review the Video Inspection and observe Large
14	Appliances and related equipment; leak inspection procedures; and routine leak detection
15	equipment used in the procedures; practices and procedures related to recordkeeping; and, where
16	applicable, leak detection, leak rate calculation, leak repair and verification, refrigerant
17	acquisition, storage, transfer, use and disposal.
18	79. <u>Records Audit</u> . At least twice every calendar year, the Auditor shall conduct an
19	unannounced, unscheduled Audit of Defendants' records for all of Defendants' appliances
20	containing Covered Refrigerant. The Audits shall be conducted at least five (5) months apart
21	from each other.
22	80. In the Records Audit, the Auditor shall assess whether Defendants' records are
23	complete, accurate, and in conformity with the requirements of 40 C.F.R. Part 82, Subpart F, UNITED STATES DEPARTMENT OF JUSTICE

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1	with the RCP, and with the terms of this Consent Decree, and whether Defendants' policies,
2	practices, acts or omissions have complied with the requirements of 40 C.F.R. Part 82, subpart F
3	with the RCP, and with the terms of this Consent Decree.
4	81. To facilitate this review, Defendants shall provide the Auditor with electronic
5	access to the Portal and the following records for each appliance:
6	a. Defendants' RCP;
7	b. Employee training materials and training attendance records;
8	c. All records required to be created under the RCP and the Consent Decree
9	for each appliance; and
10	d. All other records relating to compliance with the requirements of Section
11	608 of the CAA, 40 C.F.R. Part 82 Subpart F, with the RCP, and with the Consent Decree,
12	including but not limited to records of refrigerant purchases, use, evacuation, and disposal;
13	records relating to appliance operation, repair, refrigerant leaks, refrigerant additions or
14	refrigerant evacuation, as well as all records generated by Defendants pursuant to 40 C.F.R.
15	§ 82.166.
16	82. <u>Audit Out-briefings.</u> Upon completion of any Physical or Records Audit, the
17	Auditor will notify the Defendants of such completion and between forty-eight (48) hours and
18	seven (7) Days after such notification will conduct an out-briefing with Defendants in which the
19	Auditor shall orally convey the major Audit Findings. If the Auditor has reviewed one or more
20	Video Inspection(s), pursuant to Paragraph 78, at least fourteen (14) Days prior to any out-
21	briefing, the Auditor shall also orally convey the major Audit Findings discovered during the
22	review of the Video Inspections. The Auditor shall notify EPA of the scheduled date of the out-
23	briefing for each Audit when scheduled, but no later than forty-eight (48) hours before the out-
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1	briefing. EPA shall have the right to have its representatives (including contractors) attend the
2	out-briefing either in person or telephonically. If the out-briefing date changes, the Auditor shall
3	notify EPA at least forty-eight (48) hours prior to the out-briefing. The Auditor shall include
4	Audit Findings in the Auditor's Report submitted to EPA pursuant to Paragraph 83 below, but
5	shall also include a description of any correction(s) that may have occurred prior to submission
6	of the Auditor's Report.
7	83. <u>Auditor's Reports</u> . Defendants shall ensure that Auditor submits a report(s) of the
8	Audit results simultaneously to EPA and Defendants pursuant to Section XIX (Notices) of this
9	Consent Decree, as follows:
10	a. The Auditor shall submit a report of the Audit results of a Physical Audit
11	and of a Records Audit within thirty (30) Days of completing each Physical Audit or Records
12	Audit required by Paragraphs 76 through 77 and 79 through 81.
13	b. In each Records Audit Report required by this Paragraph, the Auditor shall
14	also report the Audit Findings from any Video Audit that has occurred between the most recent
15	Records Audit and the preceding Records Audit.
16	c. The Auditor shall not share any written draft reports with Defendants prior
17	to the submission of the Auditor's Report.
18	d. EPA shall give notice to Defendants as soon as possible before EPA has
19	any material communications directly with the Auditor about an Audit and give Defendants the
20	opportunity to participate in such conversations.
21	e. The Auditor's Report for Physical Audits conducted pursuant to
22	Paragraphs 76 through 77 will contain, at a minimum, the following information:
23	

1	(1) A description of all the types of information and records reviewed in
2	each Audit and the equipment, processes, practices, and other items reviewed, observed, or
3	evaluated during the Audit, a description of when and how the Audit was conducted,
4	identification of Defendants' personnel interviewed by the Auditor or otherwise involved with
5	the Audit, and copies of any relevant photos taken or reviewed during the Audit;
6	(2) Each Audit Finding, identified and listed separately, along with the
7	Audit requirements set forth in Paragraph 75; and
8	(3) Auditor's Recommendations to correct each Audit Finding.
9	f. The Auditor's Report for Record Audits or Video Audits conducted
10	pursuant to Paragraphs 78 or 79 through 81, will contain, at a minimum, the following
11	information:
12	(1) A description of the records reviewed (including types of Forms) for
13	each Vessel or Facility in the Record Audit;
14	(2) Each Audit Finding, identified and listed separately, in a format that is
15	organized by Vessel or Facility and by appliance;
16	(3) Auditor's Recommendations to correct each Audit Finding; and
17	(4) For Video Audits conducted pursuant to Paragraph 78, a description of
18	any deficiencies in the quality of the video footage that impaired the Auditor's ability to assess
19	the criteria identified in Paragraph 78.b.
20	84. Neither Defendants nor the United States will be bound by the recommendations
21	or conclusions of the Third Party Auditor. However, if Defendants violate any requirement of
22	this Consent Decree, Defendants will be liable for stipulated penalties to the United States,

1	pursuant to Section XIII (Stipulated Penalties) regardless of the recommendations or conclusions
2	of the Auditor.
3	X. APPROVAL OF DELIVERABLES
4	85. After review of any plan, petition, report, or other item except for (1) RCP
5	submissions pursuant to Paragraphs 20 through 27; and (2) a petition determining compliance
6	with the loss cap program pursuant to Paragraphs 102 through 103 that is submitted for EPA
7	approval pursuant to the Consent Decree, EPA shall, in writing:
8	a. Approve the submission;
9	b. Approve the submission upon specified conditions;
10	c. Approve part of the submission and disapprove the remainder; or
11	d. Disapprove the submission.
12	86. If the submission is approved pursuant to Paragraph 85.a, Defendants shall take
13	all actions required by the plan, report, or other document, in accordance with the schedules and
14	requirements of the plan, report, or other document, as approved. If the submission is
15	conditionally approved or approved only in part pursuant to Paragraph 85.b or 85.c, Defendants
16	shall, upon written direction from EPA, take all actions required by the approved plan, report, or
17	other item that EPA determines are technically severable from any disapproved portions, subject
18	to Defendants' right to dispute only the specified conditions or the disapproved portions, under
19	Section XV (Dispute Resolution).
20	87. If the submission is disapproved in whole or in part pursuant to Paragraph 85.c or
21	85.d, Defendants shall, within forty-five (45) Days or such other time as the Parties agree to in
22	writing, correct all deficiencies and resubmit the plan, report, or other item, or disapproved
23	portion thereof, for approval, in accordance with the preceding Paragraphs. If the resubmission is
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1	approved in whole or in part, Defendants shall proceed in accordance with the preceding
2	Paragraph.
3	88. If a resubmitted plan, report, or other item, or portion thereof, is disapproved in
4	whole or in part, EPA may again require Defendants to correct any deficiencies, in accordance
5	with the preceding Paragraphs, subject to Defendants' right to invoke Dispute Resolution and the
6	right of EPA to seek stipulated penalties as provided in the preceding Paragraphs.
7	89. Any stipulated penalties applicable to the original submission, as provided in
8	Section XIII, shall accrue during the forty-five (45) Day or other specified period set forth in
9	Paragraph 87, but shall not be payable unless the resubmission is untimely or is disapproved in
10	whole or in part; provided that, if the original submission was so deficient as to constitute a
11	material breach of Defendants' obligations under the Decree, the stipulated penalties applicable
12	to the original submission shall be due and payable notwithstanding any subsequent
13	resubmission.
14	90. <u>Permits</u> . Where any compliance obligation under this Decree requires Defendants
15	to obtain a federal, state, or local permit or approval, Defendants shall submit timely and
16	complete applications and take all other actions necessary to obtain all such permits or approvals
17	Defendants may seek relief under the provisions of Section XIV (Force Majeure) for any delay
18	in obtaining any permit or approval required to fulfill such obligation, if such Defendants have
19	submitted timely and complete applications and have taken all other actions necessary to obtain
20	all such permits or approvals.
21	XI. REPORTING REQUIREMENTS
22	91. By no later than March, 31, 2019, Defendants shall submit to EPA copies of all
23	records required under 40 C.F.R. §§ 82.157 and 82.166 that were generated during the preceding
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1	Calendar Year. By no later than March 31 of each Calendar Year beginning January 1, 2020,
2	until termination of the Decree pursuant to Section XXIII (Termination), Defendants shall
3	submit to EPA:
4	a. Copies of all records required under 40 C.F.R. §§ 82.157 and 82.166, and
5	copies of any other records required to be uploaded to the Electronic Records Portal pursuant to
6	Paragraph 44, that were generated during the preceding Calendar Year;
7	b. Written certification of any retrofits or retirements pursuant to Paragraphs
8	16 through 18, 46 through 47, and 48 that were completed in the preceding Calendar Year;
9	c. Information and records required to be submitted under the Annual
10	Refrigerant Loss Cap Program, as detailed in Paragraph 65;
11	d. A description (including Full Charge) of any new Large Appliances put
12	into service during the preceding Calendar Year; the date(s) each Large Appliance was acquired
13	installed, and put into service; and identification of which new Large Appliances are subject to
14	the Annual Refrigerant Loss Cap Program;
15	e. Documentation of any comprehensive leak tests and inspections that
16	demonstrates that the comprehensive leak tests and inspections are undertaken in accordance
17	with Paragraphs 28 and 29;
18	f. Documentation of Defendants' compliance efforts during the preceding
19	calendar year pertaining to routine leak detection (Paragraphs 31- 33), leak inspections
20	(Paragraphs 34 - 38), leak repair (Paragraph 39), and the Plate Freezer Tracking System
21	(Paragraph 41);
22	g. A list of the names and titles of all employees at each Facility or Vessel
23	performing obligations under this Consent Decree that includes a designation of which
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1	employees were trained in accordance with the requirements of Paragraphs 42 and 43 during the
2	preceding Calendar Year, the name of the trainer(s) and the dates of the training(s);
3	h. Access to, or copies of, the training materials other than RCP and related
4	SOPs used to address the requirements of Paragraphs 42 and 43 during the preceding Calendar
5	Year;
6	i. A current copy of the RCP, reflecting in redline any changes made to the
7	RCP during the preceding Calendar Year pursuant to Paragraph 21. If more than one revision
8	was made, submit each version and indicate its effective date(s); and
9	j. A certification of compliance during the previous calendar year with those
10	components of the RCP required in Paragraph 20.
11	92. Within sixty (60) Days of receiving each Auditor's Report required by Paragraph
12	83, Defendants shall submit to EPA a response to the Auditor's Report. Defendants' responses
13	shall include, at a minimum:
14	a. A description of Defendants' actions to address each of the Audit
15	Findings, including schedules;
16	b. An explanation of any Audit Findings identified by the Auditor's Report
17	with which the Defendants do not agree; and
18	c. For any actions recommended by the Third Party Auditor that Defendants
19	do not intend to implement, an explanation for why Defendants will not or cannot implement the
20	recommendation.
21	93. If Defendants violate, or have reason to believe that they may violate, any
22	requirement of the Consent Decree, Defendants shall provide a written report to the United
23	States regarding such violation and its likely duration, within ten (10) business days of the date
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1	Defendants f	irst become aware of the violation, and include within the report an explanation of
2	the violation	's likely cause and of the remedial steps taken, or to be taken, to prevent or
3	minimize suc	ch violation. If the cause of a violation cannot be fully explained at the time the
4	report require	ed under this Paragraph is due, Defendants shall so state in the report. Defendants
5	shall investig	ate the cause of the violation and shall then submit an amendment to the report,
6	including a fo	all explanation of the cause of the violation, within thirty (30) Days of the date
7	Defendants b	ecome aware of the cause of the violation. Nothing in this Paragraph or the
8	following Pa	ragraph relieves Defendants of their obligation to provide the notice required by
9	Section XIV	(Force Majeure).
10	94.	Whenever any violation of the Consent Decree or any other event affecting
11	Defendants'	performance under the Decree, or the performance of their Facilities or Vessels,
12	may pose an	immediate threat to the public health or welfare or the environment, Defendants
13	shall notify E	EPA orally or by electronic transmission as soon as possible, but no later than
14	twenty-four (24) hours after Defendants first knew of the violation or event. This procedure is in
15	addition to th	the requirements set forth in the preceding Paragraph.
16	95.	All reports shall be submitted according to Section XIX (Notices).
17	96.	Each report submitted by Defendants under this Section shall be signed by an
18	official of the	e submitting party and include the following certification:
19 20 21 22 23 24 25 26 27		I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting

1 2		false information, including the possibility of fine and imprisonment for knowing violations.
3	97.	This certification requirement does not apply to emergency or similar
4	notifications v	where compliance would be impractical.
5	98.	The reporting requirements of the Consent Decree do not relieve Defendants of
6	any reporting	obligations required by the Act or implementing regulations, or by any other
7	federal, state,	or local law, regulation, permit, or other requirement.
8	99.	Any information provided pursuant to the Consent Decree may be used by the
9	United States	in any proceeding to enforce the provisions of the Consent Decree and as
10	otherwise per	mitted by law.
11		XII. PETITIONS
12	100.	Replacement Refrigerant. At any time during the pendency of this Consent
13	Decree, Defer	ndants may petition EPA to add a substance to the definition of Replacement
14	Refrigerant. T	The petition shall include:
15		a. The chemical and trade name of the refrigerant;
16		b. The name of the manufacturer;
17		c. The chemical composition of the refrigerant;
18		d. The refrigerant's ozone-depleting potential (if any);
19		e. Description of the application for which the refrigerant will be used;
20		f. Evaluation of the refrigerant's efficiency in the proposed application and
21	corresponding	g environmental impacts; and
22		g. Evaluation of the environmental impacts of reclaiming the refrigerant.

1	101. EPA shall review the petition in accordance with Section X (Approval of
2	Deliverables). Upon EPA approval of any such petition, the refrigerant in question shall be
3	considered a Replacement Refrigerant henceforth for purposes of this Consent Decree.
4	102. <u>Determining Compliance with Annual Loss Cap Program</u> : In determining the
5	amount of Class I or Class II refrigerant released, for purposes of determining compliance with
6	the Annual Loss Cap Program, Defendants may petition EPA to exclude the refrigerant lost
7	during one (1) leak with a cause extrinsic to the Program Appliance (i.e. accidental physical
8	damage of a Program Appliance by other equipment, another vessel, or an operator). The petition
9	shall include:
10	a. A calculation of the total amount of the refrigerant lost from the alleged
11	leak, including the amount to be apportioned to the extrinsic cause;
12	b. Documentation regarding when the loss was discovered and when the leak
13	was repaired; and
14	c. An explanation of why the loss of refrigerant was from an extrinsic cause,
15	rather than from another release of refrigerant.
16	103. EPA shall review the petition and, in its unreviewable discretion, either (1)
17	approve the submission; (2) approve the submission under specific conditions; or (3) disapprove
18	the submission. Upon EPA approval of any such petition, the amount lost from the extrinsic
19	event could be excluded from the calculations to determine compliance with the Annual Loss
20	Cap Program for purposes of this Consent Decree.
21	XIII. STIPULATED PENALTIES
22	104. Defendants shall be liable for stipulated penalties to the United States for
23	violations of the Consent Decree as specified below, unless excused under Section XIV (Force
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1	Majeure). A violation includes failing to perform any obligation required by the terms of the
2	Decree, including any work plan or schedule approved under the Decree, according to all
3	applicable requirements of the Decree and within the specified time schedules established by or
4	approved under the Decree.
5	105. <u>Late Payment of Civil Penalty</u> . If Defendants fail to pay the civil penalty required
6	to be paid under Section IV (Civil Penalty) when due, Defendants shall pay a stipulated penalty
7	of \$2,500 per Day for each Day that the payment is late.
8	106. <u>Failure to Retrofit or Retire an appliance</u> . If Defendants fail to retrofit or retire an
9	appliance in accordance with the requirements of this Consent Decree, Defendants shall pay a
10	stipulated penalty as follows:
11	a. In accordance with the requirements of Paragraphs 46 and 47, a stipulated
12	penalty of \$750 per Day for each Day that the retrofit or retirement is late.
13	b. In accordance with the requirements of Paragraphs 16 and 17, a stipulated
14	penalty of \$500 per Day for each Day that the retrofit or retirement is late.
15	c. In accordance with the requirements of Paragraph 18, a stipulated penalty
16	of \$100 Per Day for each Day that the retrofit is late.
17	107. Third Party Verification. If Defendants fail to comply with a Third Party
18	Verification requirement in accordance with Section IX (Third Party Verification) of this
19	Consent Decree, Defendants shall pay a stipulated penalty as follows:
20	a. For a failure to hire an Auditor in accordance with the requirements of
21	Paragraphs 67 through 74, a stipulated penalty of \$10,000 per year;
22	b. For failures to ensure that the Auditor conducts Audits (Paragraphs 75

through 81), a stipulated penalty of \$1,500 per missed Audit;

1	c. For failures to ensure that the Auditor conducts an Audit Out-briefing
2	(Paragraph 82), a stipulated penalty of \$250 per Day per for each Day the Audit Out-briefing is
3	late; and
4	d. For failures to submit Auditor's Reports (Paragraph 83) in accordance
5	with required deadlines, a stipulated penalty of \$250 per Day for each Day that the Auditor's
6	Report is late.
7	108. Refrigerant Compliance Plan and Additional Compliance Requirements. If
8	Defendants fail to implement the RCP at a Vessel or Facility as required by Paragraphs 19 and
9	20, or to submit revisions in accordance with Paragraphs 21 and 27, Defendants shall pay a
10	stipulated penalty of \$100 per Day for each Day the failure to implement the RCP or to submit
11	revisions thereto occurred. For violations of additional compliance requirements, Defendants
12	shall pay a stipulated penalty as follows:
13	a. For failures to conduct comprehensive leak tests and inspections, in
14	accordance with Paragraphs 28 and 29, a stipulated penalty of \$1,500 per each missed deadline.
15	b. For failures to install and maintain fixed leak detection systems and to add
16	to and maintain fluorescent dye in Large Appliances, in accordance with Paragraphs 31 through
17	33, a stipulated penalty of \$250 per Day for each failure to install a leak detector and fluorescent
18	dye, and of \$100 per Day for each failure to properly calibrate and maintain leak detectors and to
19	maintain fluorescent dye within Large Appliances.
20	c. For failures to conduct leak inspections on Large Appliances, in
21	accordance with Paragraphs 34 through 36, a stipulated penalty of:
22	(1) \$750 per each missed deadline, for each Large Appliance with
23	greater than 5,000 pounds of Class I or Class II refrigerant; and
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1	(2) \$250 per each missed deadline, for each Large Appliance with
2	between 50 and 5,000 pounds of Class I or Class II refrigerant.
3	d. For failures to repair identified leaks, in accordance with Paragraph 39, a
4	stipulated penalty of \$1,000 per Day for each Day that Defendants fail to repair an identified leak
5	on a Large Appliance.
6	e. For failures to train employees in accordance with Paragraph 42 or to
7	implement a training program that complies with the requirements of Paragraphs 42 through 43,
8	a stipulated penalty of \$1,500 per Year for each year that Defendants fail to implement a
9	compliant training program and \$250 per each missed deadline for each employee that
10	Defendants fail to train;
11	f. For failures to create and maintain an Electronic Records Portal, in
12	accordance with Paragraphs 44 and 45, a stipulated penalty of \$250 per Day.
13	109. Reporting. If Defendants fail to comply with any Reporting requirement in
14	accordance with Section XI (Reporting Requirements) of this Consent Decree, Defendants shall
15	pay a stipulated penalty of \$250 per Day for each Day that the report is late. Stipulated penalties
16	for noncompliance with Paragraph 91.a shall apply only for Large Appliances that are subject to
17	the maintenance and leak repair requirements of 40 C.F.R. § 82.157.
18	110. <u>Recordkeeping</u> . If Defendants fail to comply with any Recordkeeping requirement
19	as required by Paragraph 20.i, Section 608 of the CAA, 42 U.S.C. § 7671g, and its implementing
20	regulations at 40 C.F.R. Part 82, Subpart F, Defendants shall pay a stipulated penalty as follows:
21	a. For a failure to maintain records by failing to complete a required record,
22	or a record that cannot be linked to the Large Appliance served or the date of service, a stipulated
23	penalty of \$250 per record.

1	b. For a failure to maintain records by having a record otherwise deficient in
2	meeting the terms of the Consent Decree, a stipulated penalty of \$100 per record.
3	Stipulated penalties for noncompliance with Paragraph 110 shall apply only for records
4	associated with Large Appliances that are subject to the maintenance and leak repair
5	requirements of 40 C.F.R. § 82.157.
6	111. <u>SEP Compliance.</u> If Defendants fail to satisfactorily complete the SEP, required
7	by Paragraphs 48 through 58, Defendants shall pay:
8	a. \$500 for each Day for which it fails to meet an applicable deadline set
9	forth in Paragraph 48, and \$250 for each Day for which it fails to meet an applicable deadline set
10	forth in Section VII (Supplemental Environmental Project) of this Consent Decree, other than
11	those deadlines set forth in Paragraph 48; or
12	b. \$525,000 if Defendants fail to implement the SEP, or halt or abandon
13	work on the SEP. The penalty under this subparagraph b. shall accrue as of the date specified for
14	completing the SEP or the date performance ceases, whichever is earlier.
15	112. <u>Annual Refrigerant Loss Cap Program</u> . Starting January 1, 2019, if, in a calendar
16	year, Defendants release Class I or Class II refrigerant in an amount that equals or exceeds the
17	Stipulated Penalty Release Limit described in Paragraph 61.b, Defendants shall pay a stipulated
18	penalty of \$50 for each pound of refrigerant released up to 5.5% in excess of the Stipulated
19	Penalty Release Limits (that is, if the total amount of Class I and Class II refrigerant released is
20	between 25% and 30.5% of the total charge of all Program Appliances), \$75 for each pound of
21	Class I and Class II refrigerant released from 5.5% to 35% in excess of the Stipulated Penalty
22	Release Limits (that is, if the amount of Class I and Class II refrigerant released is between
23	30.5% and 60% of the total charge of all Program Appliances), and \$100 for each pound of Class
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1	I and Class II refrigerant released over 35% in excess of the Stipulated Penalty Release Limits
2	(that is, if the amount of Class I and Class II refrigerant released exceeds 60% of the total charge
3	of all Program Appliances).
4	113. For all other violations of this Consent Decree not addressed by Paragraphs 105
5	through 112 above, Defendants shall pay a stipulated penalty of \$100 that accrues on a per-
6	violation, per-Day basis.
7	114. Stipulated penalties under this Section shall begin to accrue on the Day after
8	performance is due or on the Day a violation occurs, whichever is applicable, and shall continue
9	to accrue until performance is satisfactorily completed or until the violation ceases. Stipulated
10	penalties shall accrue simultaneously for separate violations of the Consent Decree.
11	115. Defendants shall pay any stipulated penalty within sixty (60) Days of receiving
12	the United States' written demand, except as provided in Paragraph 117 of this Consent Decree.
13	116. The United States may, in the unreviewable exercise of its discretion, reduce or
14	waive stipulated penalties otherwise due it under the Consent Decree.
15	117. Stipulated penalties shall continue to accrue, as provided in Paragraph 114, during
16	any Dispute Resolution, but need not be paid until the following:
17	a. If the dispute is resolved by agreement of the Parties or by a decision of
18	EPA that is not appealed to the Court, Defendants shall pay accrued penalties determined to be
19	owing, together with Interest, to the United States within thirty (30) Days of the effective date of
20	the agreement or the receipt of EPA's decision or order.
21	b. If the dispute is appealed to the Court and the United States prevails in
22	whole or in part, Defendants shall pay all accrued penalties determined by the Court to be owing,
23	

1	together with Interest, within sixty (60) Days of receiving the Court's decision or order, except
2	as provided in subparagraph c, below.
3	c. If any Party appeals the District Court's decision, Defendants shall pay all
4	accrued penalties determined to be owing, together with Interest, within fifteen (15) Days of
5	receiving the final appellate court decision.
6	118. Defendants shall pay stipulated penalties owing to the United States in the manner
7	set forth and with the confirmation notices required by Paragraph 13, except that the transmittal
8	letter shall state that the payment is for stipulated penalties and shall state for which violation(s)
9	the penalties are being paid.
10	119. If Defendants fail to pay stipulated penalties according to the terms of the Consent
11	Decree, Defendants shall be liable for Interest on such penalties, as provided for in 28 U.S.C.
12	§ 1961, accruing as of the date payment became due. Nothing in this Paragraph shall be
13	construed to limit the United States from seeking any remedy otherwise provided by law for
14	Defendants' failure to pay any stipulated penalties.
15	120. The payment of penalties and interest, if any, shall not alter in any way
16	Defendants' obligation to complete the performance of the requirements of the Consent Decree.
17	121. <u>Obligations Prior to the Effective Date.</u> Upon the Effective Date, if the Effective
18	Date is after January 1, 2019, the stipulated penalties provisions of this Decree shall be
19	retroactively enforceable to any and all violations that have occurred between January 1, 2019
20	and the Effective Date of this Decree, provided that stipulated penalties that may have accrued
21	prior to the Effective Date may not be collected unless and until this Consent Decree is entered
22	by the Court.

122. <u>Non-Exclusivity of Remedy</u> . Stipulated penalties are not the United States'
exclusive remedy for violations of the Consent Decree. Subject to the provisions of Section XVII
(Effect of Settlement/Reservation of Rights), the United States expressly reserves the right to
seek any other relief it deems appropriate for Defendants' violation of the Decree or applicable
law, including but not limited to an action against Defendants for statutory penalties, additional
injunctive relief, mitigation or offset measures, and/or contempt. Defendants reserve their rights
to contest any such additional actions taken by the United States against Defendants. However,
the amount of any statutory penalty assessed for a violation of the Consent Decree shall be
reduced by an amount equal to the amount of any stipulated penalty assessed and paid pursuant
to the Consent Decree.
XIV. FORCE MAJEURE
123. "Force majeure," for purposes of the Consent Decree, is defined as any event
arising from causes beyond the control of Defendants, of any entity controlled by Defendants, or
of Defendants' contractors, that delays or prevents the performance of any obligation under the
Consent Decree despite Defendants' best efforts to fulfill the obligation. The requirement that
Defendants exercise "best efforts to fulfill the obligation" includes using best efforts to anticipate
any potential force majeure event and best efforts to address the effects of any potential force
majeure event (a) as it is occurring and (b) following the potential force majeure, such that the
delay and any adverse effects of the delay are minimized. "Force Majeure" does not include
Defendants' financial inability to perform any obligation under the Consent Decree.
124. If any event occurs or has occurred that may delay the performance of any
obligation under the Consent Decree, whether or not caused by a force majeure event,
Defendants shall provide notice orally or by e-mail to the United States within seventy-two (72)
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hours of when Defendants first knew that the event might cause a delay. Within seven (7) Days thereafter, Defendants shall provide in writing to EPA an explanation and description of the reasons for the delay; the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the delay; a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay; Defendants' rationale for attributing such delay to a force majeure event if it intends to assert such a claim; and a statement as to whether, in the opinion of Defendants, such event may cause or contribute to an endangerment to public health, welfare, or the environment. Defendants shall include with any notice all available documentation supporting the claim that the delay was attributable to a force majeure. Failure to comply with the above requirements shall preclude Defendants from asserting any claim of force majeure for that event for the period of time of such failure to comply, and for any additional delay caused by such failure. Defendants shall be deemed to know of any circumstance of which Defendants, any entity controlled by Defendants, or Defendants' contractors knew or should have known. If EPA agrees that the delay or anticipated delay is attributable to a force majeure 125. event, the time for performance of the obligations under the Consent Decree that are affected by the force majeure event will be extended by EPA for such time as is necessary to complete those obligations. An extension of the time for performance of the obligations affected by the force majeure event shall not, of itself, extend the time for performance of any other obligation. EPA will notify Defendants in writing of the length of the extension, if any, for performance of the obligations affected by the force majeure event. 126. If EPA does not agree that the delay or anticipated delay has been or will be caused by a force majeure event, EPA will notify Defendants in writing of its decision.

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12/. If Defendants elect to invoke the dispute resolution procedures set forth in
Section XV (Dispute Resolution), it shall do so no later than fifteen (15) Days after receipt of
EPA's notice. In any such proceeding, Defendants shall have the burden of demonstrating by a
preponderance of the evidence that the delay or anticipated delay has been or will be caused by a
force majeure event, that the duration of the delay or the extension sought was or will be
warranted under the circumstances, that best efforts were exercised to avoid and mitigate the
effects of the delay, and that Defendants complied with the requirements of Paragraphs 123 and
124. If Defendants carry this burden, the delay at issue shall be deemed not to be a violation by
Defendants of the affected obligation of the Consent Decree identified to EPA and the Court.
XV. DISPUTE RESOLUTION
128. Unless otherwise expressly provided for in the Consent Decree, the dispute
resolution procedures of this Section shall be the exclusive mechanism to resolve disputes arising
under or with respect to the Consent Decree. Defendants' failure to seek resolution of a dispute
under this Section shall preclude Defendants from raising any such issue as a defense to an
action by the United States to enforce any obligation of Defendants arising under the Decree.
129. <u>Informal Dispute Resolution</u> . Any dispute subject to Dispute Resolution under the
Consent Decree shall first be the subject of informal negotiations. The dispute shall be
considered to have arisen when Defendants send the United States a written Notice of Dispute.
Such Notice of Dispute shall state clearly the matter in dispute. The period of informal
negotiations shall not exceed twenty (20) Days from the date the dispute arises, unless that
period is modified by written agreement. If the Parties cannot resolve a dispute by informal
negotiations, then the position advanced by the United States shall be considered binding unless,

1 within thirty (30) Days after the conclusion of the informal negotiation period, Defendants 2 invoke formal dispute resolution procedures as set forth below. 3 Formal Dispute Resolution. Defendants shall invoke formal dispute resolution 130. 4 procedures, within the time period provided in the preceding Paragraph, by serving on the United 5 States a written Statement of Position regarding the matter in dispute. The Statement of Position 6 shall include, but need not be limited to, any factual data, analysis, or opinion supporting 7 Defendants' position and any supporting documentation relied upon by Defendants. 8 The United States shall serve its Statement of Position within forty-five (45) Days 131. 9 of receipt of Defendants' Statement of Position. The United States' Statement of Position shall 10 include, but need not be limited to, any factual data, analysis, or opinion supporting that position 11 and any supporting documentation relied upon by the United States. The United States' 12 Statement of Position shall be binding on Defendants, unless Defendants file a motion for judicial review of the dispute in accordance with the following Paragraph. 13 14 Defendants may seek judicial review of the dispute by filing with the Court and 132. 15 serving on the United States, in accordance with Section XIX (Notices), a motion requesting 16 judicial resolution of the dispute. The motion must be filed within ten (10) Days of receipt of the 17 United States' Statement of Position pursuant to the preceding Paragraph. The motion shall 18 contain a written statement of Defendants' position on the matter in dispute, including any 19 supporting factual data, analysis, opinion, or documentation, and shall set forth the relief 20 requested and any schedule within which the dispute must be resolved for orderly 21 implementation of the Consent Decree.

1	133. The United States shall respond to Defendants' motion within the time period	
2	allowed by the Local Rules of this Court. Defendants may file a reply memorandum, to the	
3	extent permitted by the Local Rules.	
4	134. <u>Standard of Review</u> . Except as otherwise provided in the Consent Decree, in any	
5	dispute brought under Paragraph 132, Defendants shall bear the burden of demonstrating that	
6	their position complies with this Consent Decree and that it is entitled to relief under applicable	
7	principles of law. The United States reserves the right to argue that its position is reviewable	
8	only on the administrative record and must be upheld unless arbitrary and capricious or	
9	otherwise not in accordance with law, and Defendants reserve the right to oppose this position.	
10	135. The invocation of dispute resolution procedures under this Section shall not, by	
11	itself, extend, postpone, or affect in any way any obligation of Defendants under the Consent	
12	Decree, unless and until final resolution of the dispute so provides. Stipulated penalties with	
13	respect to the disputed matter shall continue to accrue from the first Day of noncompliance, but	
14	payment shall be stayed pending resolution of the dispute as provided in Paragraph 117. If	
15	Defendants do not prevail on the disputed issue, stipulated penalties shall be assessed and paid a	
16	provided in Section XIII (Stipulated Penalties).	
17	XVI. INFORMATION COLLECTION AND RETENTION	
18	136. The United States and its representatives, including attorneys, contractors, and	
19	consultants, shall have the right of entry into any Facility or Vessel covered by the Consent	
20	Decree, at all reasonable times, upon presentation of credentials, to:	
21	a. Monitor the progress of activities required under the Consent Decree;	
22	b. Verify any data or information submitted to the United States in	
23	accordance with the terms of the Consent Decree;	
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1	c. Obtain samples and, upon request, splits of any samples taken by		
2	Defendants or their representatives, contractors, or consultants; obtain documentary evidence,		
3	including photographs and similar data; and		
4	d. Assess Defendants' compliance with the Consent Decree.		
5	137. Upon request, Defendants shall provide EPA or its authorized representatives		
6	splits of any samples taken by Defendants. Upon request, EPA shall provide Defendants splits of		
7	any samples taken by EPA.		
8	138. Until five (5) years after the termination of the Consent Decree, Defendants shall		
9	retain, and shall instruct their contractors and agents to preserve, all non-identical copies of all		
10	documents, records, or other information (including documents, records, or other information in		
11	electronic form) in their or their contractors' or agents' possession or control, or that come into		
12	their or their contractors' or agents' possession or control, and that relate in any manner to		
13	Defendants' performance of their obligations under the Consent Decree. This information-		
14	retention requirement shall apply regardless of any contrary corporate or institutional policies or		
15	procedures. At any time during this information-retention period, upon request by the United		
16	States, Defendants shall provide copies of any documents, records, or other information required		
17	to be maintained under this Paragraph.		
18	139. At the conclusion of the information-retention period provided in the preceding		
19	Paragraph, Defendants shall notify the United States at least ninety (90) Days prior to the		
20	destruction of any documents, records, or other information subject to the requirements of the		
21	preceding Paragraph and, upon request by the United States, Defendants shall deliver any such		
22	documents, records, or other information to EPA. Defendants may assert that certain documents		
23	records, or other information is privileged under the attorney-client privilege or any other		
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1	privilege recognized by federal law. If Defendants assert such a privilege, they shall provide the		
2	following: (a) the title of the document, record, or information; (b) the date of the document,		
3	record, or information; (c) the name and title of each author of the document, record, or		
4	information; (d) the name and title of each addressee and recipient; (e) a description of the		
5	subject of the document, record, or information; and (f) the privilege asserted by Defendants.		
6	However, no documents, records, or other information created or generated pursuant to the		
7	requirements of the Consent Decree shall be withheld on grounds of privilege.		
8	140. Defendants may also assert that information required to be provided under this		
9	Section is protected as Confidential Business Information ("CBI") under 40 C.F.R. Part 2. As to		
10	any information that Defendants seek to protect as CBI, Defendants shall follow the procedures		
11	set forth in 40 C.F.R. Part 2.		
12	141. The Consent Decree in no way limits or affects any right of entry and inspection,		
13	or any right to obtain information, held by the United States pursuant to applicable federal laws,		
14	regulations, or permits, nor does it limit or affect any duty or obligation of Defendants to		
15	maintain documents, records, or other information imposed by applicable federal or state laws,		
16	regulations, or permits.		
17	XVII. EFFECT OF SETTLEMENT/RESERVATION OF RIGHTS		
18	142. The Consent Decree resolves the civil claims of the United States against		
19	Defendants for any violations of 40 C.F.R. Part 82, Subpart F at Defendants' Facilities and		
20	Vessels through March 31, 2016.		
21	143. The United States reserves all legal and equitable remedies available to enforce		
22	the provisions of the Consent Decree, except as expressly stated in Paragraph 142. The Consent		
23	Decree shall not be construed to limit the rights of the United States to obtain penalties or		
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1 injunctive relief under the Act or implementing regulations, or under other federal laws, 2 regulations, or permit conditions, except as expressly stated in Paragraph 142. The United States 3 further reserves all legal and equitable remedies to address any imminent and substantial 4 endangerment to the public health or welfare or the environment arising at, or posed by, 5 Defendants' Vessels and/or Facilities, whether related to the violations addressed in the Consent 6 Decree or otherwise. 7 144. In any subsequent administrative or judicial proceeding initiated by the United 8 States for injunctive relief, civil penalties, other appropriate relief relating to the Defendants' 9 Vessels and/or Facilities or Defendants' violations, Defendants shall not assert, and may not 10 maintain, any defense or claim based upon the principles of waiver, res judicata, collateral 11 estoppel, issue preclusion, claim preclusion, claim-splitting, or other defenses based upon any 12 contention that the claims raised by the United States in the subsequent proceeding were or 13 should have been brought in the instant case, except with respect to claims that have been 14 specifically resolved pursuant to Paragraph 142. 15 145. The Consent Decree is not a permit, or a modification of any permit, under any 16 federal, State, or local laws or regulations. Defendants are responsible for achieving and 17 maintaining complete compliance with all applicable federal, State, and local laws, regulations, 18 and permits; and Defendants' compliance with the Consent Decree shall be no defense to any 19 action commenced pursuant to any such laws, regulations, or permits, except as set forth herein. 20 The United States does not, by its consent to the entry of the Consent Decree, warrant or aver in 21 any manner that Defendants' compliance with any aspect of the Consent Decree will result in 22 compliance with provisions of the Act, 42 U.S.C. § 7401 et seq., or with any other provisions of

federal, state, or local laws, regulations, or permits.

146. The Consent Decree does not limit or affect the rights of Defendants or of the
United States against any third parties, not party to the Consent Decree, nor does it limit the
rights of third parties, not party to the Consent Decree, against Defendants, except as otherwise
provided by law.
147. The Consent Decree shall not be construed to create rights in, or grant any cause
of action to, any third party not party to the Consent Decree.
XVIII. COSTS
148. The Parties shall bear their own costs of this action, including attorneys' fees,
except that the United States shall be entitled to collect the costs (including attorneys' fees)
incurred in any action necessary to collect any portion of the civil penalty or any stipulated
penalties due but not paid by Defendants.
XIX. NOTICES
149. Notifications, communications, and submissions (collectively, "Submissions")
required by the Consent Decree shall be sent to the addressees listed below both electronically
and by U.S. Mail, postage pre-paid, or private courier service, except for Submissions under
Section XIV (Force Majeure) and Section XV (Dispute Resolution), which shall be sent both
electronically and by overnight mail or by certified or registered mail, return receipt requested.
Where the Consent Decree requires that Submissions be sent to the United States, they shall be
sent to the United States Department of Justice and EPA offices designated below. Where the
Consent Decree requires that Submissions be sent to EPA, they need only be sent to the EPA
offices designated below.

1 2 3		e: DJ # 90-5-2-1-11183
4 5 6 7 8 9	En U P. W	ES Case Management Unit nvironment and Natural Resources Division S. Department of Justice O. Box 7611 Vashington, D.C. 20044-7611 e: DJ # 90-5-2-1-11183
10 11 12 13 14 15 16	12 Se <u>M</u>	atie McClintock 200 Sixth Avenue, Suite 155 eattle, Washington 98101 cclintock.katie@epa.gov 06) 553-2143
17 18 19 20 21 22 23	En Tr 53 Se Ss	nawn Stokes nvironmental Affairs Director rident Seafoods Corporation 803 Shilshole Avenue NW eattle, Washington 98107 tokes@tridentseafoods.com 06) 297-6646
24	150. Any Party may, by written notice	e to the other Parties, change its designated notice
25	recipient or notice address provided above.	
26	151. Notices submitted pursuant to the	nis Section shall be deemed submitted upon
27	mailing, unless otherwise provided in the Cons	ent Decree or by mutual agreement of the Parties
28	in writing.	
29	XX. EFF	ECTIVE DATE
30	152. The Effective Date of the Conse	ent Decree shall be the date upon which the
31	Consent Decree is entered by the Court or a mo	otion to enter the Consent Decree is granted,
32	whichever occurs first, as recorded on the Cour	t's docket.

1	XXI. RETENTION OF JURISDICTION	
2	153. The Court shall retain jurisdiction over this case until termination of the Consent	
3	Decree, for the purpose of resolving disputes arising under the Decree or entering orders	
4	modifying the Decree, pursuant to Sections XV (Dispute Resolution) and XXII (Modification),	
5	or effectuating or enforcing compliance with the terms of the Decree.	
6	XXII. MODIFICATION	
7	154. Except as otherwise stated in Paragraph 21, the terms of this Consent Decree,	
8	including any attached appendices, may be modified only by a subsequent written agreement	
9	signed by all the Parties. Where the modification constitutes a material change to this Decree, it	
10	shall be effective only upon approval by the Court.	
11	155. Any disputes concerning modification of the Decree shall be resolved pursuant to	
12	Section XV (Dispute Resolution), provided, however, that, instead of the burden of proof	
13	provided by Paragraph 134, the Party seeking the modification bears the burden of demonstrating	
14	that it is entitled to the requested modification in accordance with Federal Rule of Civil	
15	Procedure 60(b).	
16	XXIII. TERMINATION	
17	156. <u>Certificate of Completion: Applicable Sections.</u> Prior to moving for Termination	
18	under Paragraphs 161 through 163 below, the Defendants may seek to certify completion of one	
19	or more of the following Sections of this Consent Decree, subject to the Standard for Completion	
20	in Paragraph 157:	
21	a. Section V (Compliance Requirements)	
22	b. Section VIII (Annual Refrigerant Loss Cap Program)	
23	c. Section IX (Third Party Verification)	
	Consent Decree: LINITED STATES DEPARTMENT OF ILISTICE	

1	157. <u>Standard for Completion</u> . No Section of this Consent Decree listed in Paragraph
2	156 shall be certified complete unless Defendants have satisfactorily completed and are in full
3	satisfaction of all requirements of the applicable Section(s) for three consecutive calendar years,
4	beginning any time after the third year after the Effective Date. Notwithstanding any Certificate
5	of Completion Defendants may obtain for Section V (Compliance Requirements), the
6	Independence and the Island Enterprise must continue to comply with all of the requirements of
7	Section V until the date that each Vessel is retrofitted or retired in accordance with the
8	requirements of Paragraphs 46 and 47.
9	158. <u>Certificate of Completion: Defendants' Actions.</u> If Defendants conclude that any
10	of the Sections of this Consent Decree identified in Paragraph 156 above have met the Standard
11	of Completion, then Defendants may submit a written report to EPA describing the activities
12	undertaken and certifying that Defendants have met the Standard of Completion for that
13	Section(s). The report shall contain the following statement, signed by a responsible corporate
14	official of the Defendants:
15 16 17 18 19 20	To the best of my knowledge, after appropriate investigation, I certify that the information contained in or accompanying this submission is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
21	159. <u>Certificate of Completion: EPA Actions</u> . Upon receipt of Defendants'
22	certification, EPA shall notify the Defendants in writing whether the requirements set forth in the
23	applicable Section have been completed in accordance with this Consent Decree:
24	a. If EPA concludes that Defendants have not met the Standard for
25	Completion for the applicable Section(s) presented in Defendants' written report submitted

1	pursuant to Paragraph 158, EPA will notify the Defendants in writing as to the activities that						
2	EPA believes must be undertaken to complete the applicable Section of this Consent Decree. The						
3	Defendants shall perform all activities described in the notice, subject to the terms of this						
4	Consent Decree and Defendants' right to invoke the dispute resolution procedures set forth in						
5	Section XV (Dispute Resolution); and/or						
6	b. If EPA concludes that Defendants have met the Standard of Completion						
7	for the applicable Section(s) presented in Defendants' written report submitted pursuant to						
8	Paragraph 158, EPA shall so certify in writing to the Defendants. This certification shall						
9	constitute the Certification of Completion of the applicable Section or part for purposes of this						
10	Consent Decree.						
11	160. Certificate of Completion: No Impediment to Stipulated Penalty Demand.						
12	Nothing in Paragraphs 157 through 159 above shall preclude the United States from seeking						
13	stipulated penalties for a violation of any of the requirements of this Consent Decree based on						
14	acts or omissions occurring prior to the issuance of a Certificate of Completion or if the						
15	Certificate of Completion is based on inaccurate representations by Defendants. In addition,						
16	nothing in Paragraphs 157 through 159 above shall permit Defendants to fail to implement any						
17	other ongoing obligations under this Consent Decree regardless of whether a Certificate of						
18	Completion has been issued for certain Sections.						
19	161. <u>Termination</u> . Any time after Defendants have:						
20	a. completed three consecutive calendar years of satisfactory compliance						
21	with Sections V (Compliance Requirements), VIII (Annual Refrigerant Loss Cap Program, and						
22	IX (Third Party Verification) of the Consent Decree, beginning any time after the third year after						
23	the Effective Date;						
	Consent Decree: UNITED STATES DEPARTMENT OF JUSTICE						

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1	b. satisfactorily completed the requirements of Sections IV (Civil Penalty),						
2	VI (Retrofits), and VII (Supplemental Environmental Project); and						
3	c. paid the civil penalty and any accrued stipulated penalties as required by						
4	the Consent Decree, Defendants may serve upon the United States a Request for Termination,						
5	stating that Defendants have satisfied those requirements, together with all necessary supporting						
6	documentation.						
7	162. Following receipt by the United States of Defendants' Request for Termination,						
8	the Parties shall confer informally concerning the Request and any disagreement that the Parties						
9	may have as to whether Defendants have satisfactorily complied with the requirements for						
10	termination of the Consent Decree set forth in Paragraph 161 above. If the United States agrees						
11	that the Decree may be terminated, the Parties shall submit, for the Court's approval, a joint						
12	stipulation terminating the Decree.						
13	163. If the United States does not agree that the Decree may be terminated, Defendants						
14	may invoke Dispute Resolution under Section XV (Dispute Resolution). However, Defendants						
15	shall not seek Dispute Resolution of any dispute regarding termination until sixty (60) Days after						
16	service of their Request for Termination.						
17	XXIV. PUBLIC PARTICIPATION						
18	164. The Consent Decree shall be lodged with the Court for a period of not less than 30						
19	Days for public notice and comment in accordance with 28 C.F.R. § 50.7. The United States						
20	reserves the right to withdraw or withhold its consent if the comments regarding the Consent						
21	Decree disclose facts or considerations indicating that the Consent Decree is inappropriate,						
22	improper, or inadequate. Defendants consent to entry of the Consent Decree without further						
23	notice and agree not to withdraw from or oppose entry of the Consent Decree by the Court or to						
	Consent Decree: UNITED STATES DEPARTMENT OF JUSTICE United States v.Trident Seafoods, et. al. Environment and Natural Resources Division						

1	challenge any provision of the Decree, unless the United States has notified Defendants in						
2	writing that it no longer supports entry of the Decree.						
3	XXV. SIGNATORIES/SERVICE						
4	165. Each undersigned representative of Defendants and the Assistant Attorney						
5	General for the Environment and Natural Resources Division of the Department of Justice						
6	certifies that he or she is fully authorized to enter into the terms and conditions of the Consent						
7	Decree and to execute and legally bind the Party he or she represents to this document.						
8	166. The Consent Decree may be signed in counterparts, and its validity shall not be						
9	challenged on that basis. Defendants agree to accept service of process by mail with respect to all						
10	matters arising under or relating to the Consent Decree and to waive the formal service						
11	requirements set forth in Rules 4 and 5 of the Federal Rules of Civil Procedure and any						
12	applicable Local Rules of this Court including, but not limited to, service of a summons.						
13	Defendants need not file an answer to the complaint in this action unless or until the Court						
14	expressly declines to enter this Consent Decree.						
15	XXVI. INTEGRATION						
16	167. The Consent Decree constitutes the final, complete, and exclusive agreement and						
17	understanding among the Parties with respect to the settlement embodied in the Decree and						
18	supersedes all prior agreements and understandings, whether oral or written, concerning the						
19	settlement embodied herein. The Parties acknowledge that there are no representations,						
20	agreements, or understandings relating to the settlement other than those expressly contained in						
21	the Consent Decree.						

XXVII. FINAL JUDGMENT					
168. Upon approval and entry of the Consent Decree by the Court, the Consent Decree					
shall constitute a final judgment of the Court as to the United States and Defendants.					
XXVIII. 26 U.S.C. SECTION 162(f)(2)(A)(ii) IDENTIFICATION					
169. For purposes of the identification requirement of Section 162(f)(2)(A)(ii) of the					
Internal Revenue Code, 26 U.S.C. § 162(f)(2)(A)(ii), performance of Section II (Applicability),					
Paragraph 9; Section V (Compliance Requirements), Paragraphs 15 through 21, 24 through 25,					
28-45; Section VI (Retrofits), Paragraphs 46 through 47; Section VIII (Annual Refrigerant Loss					
Cap Program), Paragraphs 59 through 66; Section IX (Third Party Verification), Paragraphs 67-					
69, 71 through 73, 75 through 83; Section X (Approval of Deliverables), Paragraphs 85 through					
86, 90; Section XI (Reporting Requirements), Paragraphs 91 through 93, 95 through 96; Section					
XII (Petitions), Paragraphs 100-101; Section XVI (Information Collection and Retention),					
Paragraphs 136 through 139; and Appendix A, is restitution or required to come into compliance					
with law.					
XXIX. APPENDIX					
170. Appendix A is Defendants' Refrigerant Compliance Plan, current as of the date of					
lodging, and is attached to and part of this Consent Decree					
Dated and entered this day of, 2018.					
UNITED STATES DISTRICT JUDGE					

UNITI

Western District of Washington

UNITED STATES DEPARTMENT OF JUSTICE Environment and Natural Resources Division P.O. Box 7611, Washington, DC 20044-7611 (202) 305-0302

Consent Decree:

FOR THE UNITED STATES OF AMERICA:

Date

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011/010

Date

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Regional Counsel

U.S. Environmental Protection Agency, Region 10

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U.S. Environmental Protection Agency, Region 10
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Seattle, WA 98101

FOR DEFENDANTS:

12/21/18

Date

12/21/18

Date

12/21/18

FOR TRIDENT SEAFOODS CORPORATION

FOR ROYAL VIKING, INC

FOR GOLDEN DAWN, LLC

Refrigerant Compliance Plan (RCP)



Revision Number: 0
Revision Date: 08/20/2018

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Introduction

- 40 CFR Part 82, Subpart F was amended significantly, effective January 1, 2017. Not all requirements take effect immediately; rather they will be phased-in between 2017 and 2019. See Table 3 for specifics. In general, this plan treats all requirements as currently in effect to prepare users for future compliance, reduce the frequency of necessary updates, and reduce the risk of non-compliance as the requirements are phased in. This manual does not alter legal requirements. For actual legal requirements, see the current requirements of Section 608.
- Trident Seafoods signed a Consent Decree with the Environmental Protection Agency (EPA) which
 creates additional enforceable requirements for the Trident Seafoods facilities and vessels. This
 manual outlines the Consent Decree requirements relevant to the operations described in the
 manual, and will draw specific attention to those requirements by marking them as required by the
 Consent Decree (example: "per the Consent Decree"). Use the following key points when the
 Consent Decree is referenced:
 - The Consent Decree differentiates between "Covered Refrigerant" and "Class I or Class II Refrigerant." Use the following definitions:
 - Covered Refrigerants include CFCs, HCFCs, and HFCs.
 - Class I and Class II Refrigerants include CFCs and HCFCs.
 - o In the event of a conflict between the Consent Decree and this manual, or a conflict between the regulations and this manual, the obligations in the Consent Decree and the regulations govern. This manual is designed to assist employees with meeting regulatory and Consent Decree obligations; it does not replace or change those obligations.
 - Consent Decree requirements may terminate over time. This plan may be revised accordingly as requirements are terminated.
- All Trident Seafoods vessels must comply with MARPOL regulatory requirements. See Summary of
 MARPOL, Annex VI, Regulation 12 Requirements (vessels only) for MARPOL regulations regarding
 ozone depleting substances. All requirements in this manual flagged as "MARPOL" are outside of,
 and independent from, EPA regulations and the requirements of the Consent Decree.
- **Glossary**: The *Glossary* provides definitions for many of the terms used in this manual and on the forms. In a number of cases, words that may have broader meanings in the "every day" sense often have narrower meanings as defined by EPA for regulatory purposes.

The following **key terms** from the *Glossary* are noted here to provide clarity to users of this manual:

- Appliances means any device which contains and uses a Class I or Class II substance or substitute as a refrigerant, including any air conditioner, refrigerator, stand-alone chiller or freezer, or industrial refrigeration system. For an appliance with multiple circuits, each independent circuit is considered a separate appliance. The terms system and appliance are used interchangeably in this manual.
- Small Appliance means any appliance that is fully manufactured, charged, and hermetically sealed in a factory with five (5) pounds or less or refrigerant, including, but not limited to, refrigerators and freezers (designed for home, commercial, or consumer use), medical or industrial research refrigeration equipment, room air conditioners (including window air

- conditioners and packaged terminal air heat pumps), dehumidifiers, under-the-counter ice makers, vending machines, and drinking water coolers.
- 3. **Medium Appliance** (defined in the Consent Decree) means any appliance that "normally contains" (as defined in in 40 CFR 82.152) between 5 and 50 pounds of covered refrigerant.
- 4. Large Appliance (defined in the Consent Decree) means any industrial process refrigeration or commercial refrigeration equipment, as defined in 40 CFR 82.152 that "normally contains" (as defined in 40 CFR 82.152) more than 50 pounds of covered refrigerant.

Contact Information

Industrial Refrigeration Compliance Manager (IRCM):	Michael Clutter	(206) 297-4609
Regulatory Affairs Director:	Shawn Stokes	(206) 297-6646
Refrigeration Projects Manager:	Mike Reha	(206) 297-6410

Document Control

A copy of the Consent Decree and the RCP will be maintained on the Trident Refrigerant SharePoint site by the IRCM. All officers, employees, agents, contractors and auditors whose duties might reasonably include compliance with any provision of the Consent Decree will be given a copy of the Consent Decree, or access to the Refrigerant SharePoint site. Employees with responsibilities under the RCP will be given access to the Refrigerant SharePoint site, or will be provided access to a controlled copy of the RCP; each controlled copy will be updated when revisions are made.

Background

Ozone Depleting Substances and their Substitutes

Chlorofluorocarbons (CFCs) are gas or liquid compounds that contain atoms of chlorine, fluorine, and carbon. CFCs are used as refrigerants, solvents, foam blowing agents, and in other smaller applications. For over 50 years, CFCs were thought of as miracle substances: they are stable, nonflammable, low in toxicity, and inexpensive to produce.

Hydrochlorofluorocarbons (HCFCs) are a subset of CFCs; they are used primarily as refrigerants.

Beginning in the 1970s, researchers found that the chlorine in CFCs has a powerfully damaging effect on the earth's ozone layer. When CFCs reach the stratosphere, strong UV radiation can break down CFCs and release atoms of chlorine. Since one chlorine atom is capable of destroying over 100,000 ozone molecules, the net effect is that the ozone in the ozone layer is destroyed faster than it is naturally created. Because of the damage they inflict on the ozone layer, CFC compounds (and others like them) are called ozone depleting substances (ODS).

The initial concern generated about the ozone layer in the 1970s led to a ban on the use of CFCs in aerosol propellants in several countries, including the U.S.; however, production of CFCs and other ozone depleting substances continued rapidly as new uses for CFCs were discovered. Subsequent measurements of the ozone layer showed worse than expected additional damage, and concern about the ozone layer eventually led the United States and other countries to enter into international agreements designed to phase out use of ODSs.

The most recent of these agreements is the Montreal Protocol on Substances that Deplete the Ozone Layer, signed in 1987. The parties to the Montreal Protocol agreed to completely end production of CFCs and halons by the beginning of 1996 in developed countries, and to continue to phase out HCFCs and other ODSs. The Montreal Protocol was an outstanding global, collaborative effort; it is considered one of the most successful and effective environmental treaties ever negotiated, and its important role in improving global health cannot be overlooked.

In response to the requirements of the Montreal Protocol, EPA divided ODSs and their substitutes into classes:

- Class I Substances are those substances that exceed a certain threshold with regard to ozonedepletion potential, including CFCs and halons.
- Class II Substances are those substances that are below the Class I substance threshold for ozone
 depleting potential. Currently, all HCFCs are class II substances. Many Class II substances have been
 used as transitional substitutes for CFCs as the United States moves toward eliminating the use of
 ODSs.
- Substitutes are refrigerants that replace Class I and Class II substances; this includes HFCs.

Phase-Out of HCFC Production and Importation

Although HCFCs have been used as transitional substitutes for CFCs as the United States moves toward eliminating use of ODS, the United States is phasing out HCFC use by first limiting and then prohibiting the production or importation of HCFCs. The table below shows the phase-out schedule. In the

meantime, the Clean Air Act and the United States Environmental Protection Agency's (EPA) regulations place many controls on the manufacture, purchase, use, and disposal of HCFCs and HFCs.

Table 1. Phaseout schedule of HCFC production and importation.

PHASEOUT OF HCFC PRODUCTION AND IMPORTATION				
Year to be Implemented	Implementation of HCFC Phase-out through Clean Air Act Regulations			
2010	No production and no importing of R-22, except for use in equipment manufactured before 1/1/2010			
2015	No production and no importing of any HCFCs, except for use as refrigerants in equipment manufactured before 1/1/2020			
2020	No production and no importing of R-22			
2030	No production and no importing of any HCFCs			

The Clean Air Act in Relation to Ozone Depleting Substances

To implement the Montreal Protocol and protect the ozone layer from further destruction, the United States enacted Title VI of the Clean Air Act in 1990, entitled *Stratospheric Ozone Protection*. Section 608 of Title VI covers requirements for recycling and emission reduction of ozone depleting substances and their substitutes.

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CFCs, HCFCs, and HFCs

"Freon®," a name commonly associated with coolants and refrigerants, is a registered trademark owned by E. I. DuPont de Nemours and Company. The name "Freon®" is commonly used for products containing CFCs, HCFCs, HCFCs, and related compounds. In this manual, the word "Refrigerant" is used for these types of refrigerants and includes refrigerants by various manufacturers including DuPont.

The chemical names of the various coolants and refrigerants are identified by a numbering system, using varying prefixes such as R- (for Refrigerant), or CFC-, HCFC-, and HFC-, and the refrigerant number. The table below illustrates the different numbers assigned to some chemical names of different refrigerants, and other important information regarding refrigerants:

Table 2. Information on CFCs, HCFCs, and HFCs.

Refrigerant	CFC, HCFC, HFC	Class No.	Certification Type Required* ≤5 lbs./>5 lbs.	Ozone Depleting Potential (ODP)	Global Warming Potential (GWP)	Phase Out Date
R-12	CFC	I	Type I/Type II	1.000	10890	1996
R-22	HCFC	II	Type I/Type II	0.055	1600	2020
R-134a	HFC	NA	Type I/Type II	0	1430	NA
R-401A	HCFC	Ш	Type I/Type II	0.037	1182	2030
R-404A	HFC	NA	Type I/Type II	0	3920	NA
R-408A	HCFC	II	Type I/Type II	0.026	55	2030
R-409A	HCFC	Ш	Type I/Type II	0.05	1485	2030
R-410A	HFC	NA	Type I/Type II	0	2090	NA
R-448A	HFC	NA	Type I/Type II	0	1273	NA
R-507A	HFC	NA	Type I/Type II	0	3990	NA

^{*}A technician with a Universal certification is certified to perform all activities approved for Type I, II, and III technicians. Universal certification does not include motor vehicles.

See the *Glossary* terms for definitions of ozone depleting potential and global warming potential.

MARPOL (vessels only)

The United States is also a signatory to MARPOL, the International Convention for the Prevention of Pollution from Ships ("MARPOL" is short for marine pollution). MARPOL's stated objective is to preserve the marine environment through the complete elimination of pollution by oil and other harmful substances and the minimization of accidental discharge of such substances. MARPOL Annex VI outlines regulations for prevention of air pollution from ships. Regulation 12 of Annex VI contains controls for ozone depleting substances, which include CFCs, HCFCs, and halons.

All ships flagged under countries that are signatories to MARPOL are subject to its requirements, regardless of where they sail and member nations are responsible for vessels registered under their respective nationalities.

Regulatory Requirements and Consent Decree Overview

Summary of 40 CFR, Part 82, Subpart F Requirements

- Requires practices that minimize loss and maximize recycling of refrigerants (CFCs and HCFCs and non-exempt substitutes) during the servicing and disposal of air-conditioning and refrigeration equipment.
- Restricts the sale of refrigerant so that it is only sold to certified technicians and appliance manufacturers.
- Sets certification requirements for technicians who service equipment.
- Sets performance standards for refrigerant recovery and recycling equipment.
- Establishes safe disposal requirements to ensure removal of refrigerants from goods that may enter the waste stream with the refrigerant charge intact.
- Requires repair of leaks in refrigeration equipment with a charge 50 or more pounds of refrigerant that exceed a certain annualized rate to be repaired within specific timelines.
- Requires persons owning or operating equipment with a charge of 50 or more pounds of refrigerant to maintain servicing records and records of refrigerant additions, as well as other records.
- Prohibits deliberate venting or release of CFC or HCFC refrigerants or substitutes to the atmosphere.
- Specifies reporting and recordkeeping requirements for refrigerant systems and related equipment.

40 CFR Part 82, Subpart F was amended significantly, effective January 1, 2017. Not all requirements take effect immediately. The following provides a timetable of compliance dates for the major updates to the regulation:

Table 3. Compliance dates for regulatory updates.

Rule or Topic	Compliance Date		
HFCs – sale restrictions on used refrigerant, appliances,	1/1/2017		
recovery/recycling equipment			
HFCs – sale restrictions on new refrigerant	1/1/2018		
Disposal requirements for small appliances, including	1/1/2018		
recordkeeping requirements			
Leak rate adjustments	1/1/2019		
Leak repair requirements	1/1/2019		
Inclusion of HFCs			
 Leaks required to be repaired 			
 Recordkeeping and reporting requirements 			
 Initial and follow-up verification test timelines 			
 Extensions available for repairs 			
Leak inspection requirements	1/1/2019		
Chronic leaker provision	1/1/2019		
Seasonal variance provision	1/1/2019		
Retrofit and retirement recordkeeping, extensions, "off-	1/1/2019		
ramping"			

Summary of MARPOL, Annex VI, Regulation 12 Requirements (vessels only)

- Does not apply to permanently sealed equipment where there are no refrigerant charging connections or potentially removable components containing ozone depleting substances (typically small domestic appliances such as refrigerators, air conditioners, or water coolers).
- Prohibits deliberate and non-deliberate discharge of CFC of HCFC refrigerants to the atmosphere other than minimal releases associated with the recapture or recycling of an ozone depleting substance.
- Prohibits installation of any CFC or halon containing system or equipment on any ships as of May 19, 2005.
- Prohibits installation of any HCFC containing system or equipment on any ships as of January 1, 2020.
- Requires that controlled practices be used to collect, re-use, or dispose of ozone depleting substances; and to service or decommission systems and equipment.
- Requires that ships track all releases and record whether the releases were deliberate or nondeliberate. All releases are assumed to be non-deliberate in this plan and the corresponding forms workbook, as deliberate venting is prohibited.
- Requires that IAPP-certified ships¹ maintain a list of equipment containing ozone depleting substances.
- Requires that IAPP-certified ships maintain records on ozone depleting supply, recharging, repair, discharge, and disposal.

Summary of Consent Decree Requirements

The Consent Decree requires:

- Compliance with all applicable requirements of Section 608 and 40 CFR Part 82, Subpart F.
- Trident to retrofit Large Appliances according to the schedule outlined in the Consent Decree.
- The development, implementation, and annual review of a Refrigerant Compliance Plan (RCP).
- The completion of comprehensive leak inspections, which include system pump outs and pressure tests
- The completion of routine leak inspections and the installation of fixed leak detectors and fluorescent dye in Large Appliances.
- Trident to repair all identified leaks that are visible and accessible regardless of how those leaks are discovered or of the calculated leak rate.
- Annual training.
- The use and maintenance of an Electronic Records Portal and Plate Freezer Leak Database.
- Trident to hire a Third Party Auditor to conduct audits and ensure compliance with the Consent Decree and all applicable regulation.
- The calculation of an Annual Refrigerant Loss Rate across all Large Appliances.
- Trident to complete an Annual Report and submit the report to EPA (see CD for detailed requirements).

Refrigerant Policies & Responsibilities

Trident Seafoods Refrigerant Policy

It is the policy of Trident Seafoods to comply with EPA refrigerant regulations in 40 CFR 82, MARPOL regulations, and the Consent Decree. This plan is written to facilitate compliance with these regulations and agreements; in addition, it may contain Trident policies that are beyond the scope of current regulations and agreements.

Trident Seafoods, with headquarters in Seattle, Washington, owns and operates processing facilities as well as processing, fishing, tendering, and support vessels. These policies apply to all Trident Seafoods' facilities and vessels.

As part of the above policy, the following directives will be observed:

- Only certified technicians (certified through an EPA-approved certification course) will maintain, service, repair, or dispose of refrigeration systems and appliances, and will do so in accordance with EPA regulatory requirements (See *Certified Technicians*).
- Only EPA-approved certified technicians will purchase covered refrigerants (See Certified Technicians).
- There will be no deliberate venting or release of refrigerants into the atmosphere unless covered by an EPA-approved exception (See *Venting and Releases*).
- Refrigerants will be recovered, reclaimed, recycled, and transferred only by certified technicians
 using certified recycling and recovery equipment, in accordance with federally required procedures
 (See Refrigerant Recovery and Used Refrigerant (Recovered, Reclaimed, Recycled) and Recovery
 and Recycling Equipment).
- Refrigerant systems will be disposed of, transferred, or sold in accordance with EPA regulations (See *Purchasing, Selling, Distribution*).
- Leak repairs, leak repair extensions, retrofitting, retiring, shutdowns, and/or mothballing of Large
 Appliances will be implemented in accordance with EPA regulatory requirements (See Large
 Appliances (Appliances & Systems with Full Charges of 50 or More Pounds) and Corporate
 Responsibilities).
- All records required or otherwise kept as part of the refrigerant tracking and management program
 will be maintained for a minimum of 5 years after the Consent Decree is terminated (See
 Recordkeeping System and Retention of Logs and Records (per Consent Decree)).

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Management Responsibilities

Responsible	Responsible Role Specific Tasks		
Supervisor	Role	эреспіс тазкз	
Regulatory Affairs	Responsible for program	Ensure that compliance with the Refrigerant Compliance Plan (RCP) and Consent Decree	
Director	support and oversight.	is a company policy and appropriate procedures are implemented to ensure compliance.	
Director	support and oversight.	Ensure refrigerant purchasing records are maintained and retained.	
		Ensure that program records are retained as required by the Consent Decree.	
		4. Ensure top management is aware of the compliance status regarding the refrigerant	
Industrial	Despensible for program	compliance program, consent decree and applicable regulations.	
	Responsible for program	Ensure that compliance with the Refrigerant Compliance Plan (RCP) and Consent Decree The second s	
Refrigeration	support and oversight,	is a company policy and appropriate procedures are implemented to ensure compliance.	
Compliance	and administrative	Assume or delegate program responsibility.	
Manager (IRCM)	control of the RCP. Has	3. Conduct research as needed to answer questions from facilities and vessels.	
	the authority to enact	4. Conduct checks as often as necessary to ensure that appropriate documentation is being	
	changes necessary for	maintained at each facility and on each vessel.	
	compliance.	5. Communicate with contractors and ensure contractor program awareness and that all	
		relevant information provided by contractors is entered into appropriate forms.	
		6. Annually ensure proper measurement of the full charge of each system, as required by	
		the Consent Decree.	
		7. Annually calculate the percentage lost during the past year as required by the Annual	
		Refrigerant Loss Cap Program in the Consent Decree.	
		8. Annually submit the required documents and calculations to EPA, as required by the	
		Consent Decree.	
		9. If necessary, report violations of the Consent Decree to EPA as required by the Consent	
		Decree.	
		10. Ensure that proper documentation is completed and reporting to EPA is performed as	
		required where leak rate triggers necessitate leak repair extensions, retrofitting, retiring,	
		shutdowns, and/or mothballing.	
		11. Review the Refrigerant Compliance Plan (RCP) at least annually and update as needed,	
		including if regulations are amended or legal requirements change. Submit proposed	
		changes to EPA before implementing, as required by the Consent Decree.	
		12. Initiate or approve and distribute SOP revisions as needed.	

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		13. Be familiar with and understand the current regulations pertaining to the handling,
		control, and proper disposal of ozone depleting substances.
		14. Monitor compliance and communicate deficiencies to management in writing.
		15. Ensure that facilities and vessels maintain updated forms and records per RCP
		specifications.
		16. Ensure that facilities and vessels maintain updated system inventories.
		17. Ensure Port Engineers, Facility and Vessel Managers, Chief Engineers, technicians, and
		contractors are trained as required by the RCP.
		18. Facilitate third-party audits as needed.
		19. Implement future policy changes as needed.
		20. Ensure shore side facility system pressure tests are scheduled according to Consent
		Decree and RCP requirements.
		21. Ensure video inspections are conducted as required.
Refrigeration	Responsible for ensuring	Ensure pressure tests on vessels are scheduled and conducted per Consent Decree and
Projects Manager	pressure tests onboard	RCP requirements.
	vessels are scheduled	
	and conducted properly.	
Port Engineers	Responsible for program	1. Ensure that compliance with the Refrigerant Compliance Plan (RCP) and Consent Decree
	support and oversight	is a company policy and appropriate procedures are implemented to ensure compliance.
	onboard company	2. Maintain written SOPs (Standard Operating Procedures); update as needed to reflect
	vessels.	current practice and submit to the IRCM for approval and distribution.
		3. Ensure only certified technicians are allowed to open Trident Seafoods' systems and
		appliances for repairs/service.
		4. Communicate with contractors to ensure they understand and comply with company
		policies as described in this plan.
		5. Identify and procure necessary equipment and services required to comply with
		regulations.
		6. Oversee the transportation and disposal of refrigerant, used refrigerant, used oil, and
		parts.
		7. Identify risks associated with refrigerant use and communicate these risks to
		management.
		Ensure disciplinary procedures are in place for failures to comply.
		Communicate compliance deficiencies to Regulatory Affairs Director.
		Budget appropriately for compliance requirements.
		10. Budget appropriately for compliance requirements.

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Facility/Vessel Area	Responsible for support	1. Ensure that compliance with the Refrigerant Compliance Plan (RCP) and Consent Decree
Manager	and oversight of	is a company policy and appropriate procedures are implemented to ensure compliance.
	program	2. Ensure that facility/vessel program documentation is accurate, complete, and
	implementation at the	maintained according to program requirements.
	facility/onboard the	3. Ensure only certified technicians are allowed to open Trident Seafoods' systems and
	vessel.	appliances for repairs and service.
		4. Ensure facility/vessel employees receive the training required by this plan, and that the
		training is documented.
		5. Ensure disciplinary procedures are in place for failures to comply.
		6. Budget appropriately for compliance requirements.
Facility	Responsible for program	Ensure that compliance with the Refrigerant Compliance Plan (RCP) and Consent Decree
Manager/Vessel	implementation,	is a company policy and appropriate procedures are implemented to ensure compliance.
Captain	execution, and	Implement the RCP onboard the vessel/at the facility.
Captain	recordkeeping.	Maintain the vessel refrigerant system inventory as up-to-date.
	Supervises all	4. Ensure timely initial and follow-up verification tests for all leak repairs.
	technicians and	5. Ensure required records for all refrigerant-related activities are completed and
	contractors.	maintained per program requirements.
	contractors.	7. Ensure that records completed by employees and technicians onboard the vessel are
		accurate, complete, and maintained per program requirements.
		8. Ensure that facility/vessel program documentation is accurate, complete, and
		maintained according to program requirements.
		9. Manage and file vessel logs and records as required by the program.10. Ensure training is conducted for vessel employees per program requirements.
		11. Ensure certification of all technicians before they are allowed to open systems for repairs/service.
		12. Communicate with contractors to ensure they understand and comply with company
		policies as described in this plan.
		13. Identify when it is necessary to order or add more refrigerant by communicating with
		the refrigerant technician(s).
		14. Oversee the transportation and disposal of refrigerant, used refrigerant, used oil, and
		parts.
		15. Identify risks associated with refrigerant use and communicate these risks to
		management.
		16. Ensure disciplinary procedures are in place for failures to comply.
		20. 2a. aa. procedures are in place for failures to comply.

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		17. Monitor compliance and communicate deficiencies to Regulatory Affairs Director.
Chief Engineer/	Responsible for program	1. Ensure that compliance with the Refrigerant Compliance Plan (RCP) and Consent Decree
Maintenance	implementation,	is a company policy and appropriate procedures are implemented to ensure compliance.
Manager	execution, and	2. Implement the RCP at the facility/onboard the vessel.
	recordkeeping.	3. Maintain the facility/vessel refrigerant system inventory as up-to-date.
	Supervises all	4. Complete and maintain required logs and records for all refrigerant-related activities per
	technicians and	program requirements.
	contractors.	5. Ensure that records completed by the refrigerant technicians and other trained
		employees at the facility/onboard the vessel are accurate, complete, and maintained per
		program requirements.
		6. Manage and file facility/vessel logs and records as required by the program.
		7. Ensure training is conducted for facility/vessel employees per program requirements.
		8. Coordinate on-going training of employees in refrigerant recovery, recycling, appliance
		and equipment repair and regulatory or policy changes. Ensure all technicians and
		maintenance employees are trained in program requirements and in their job tasks.
		9. Ensure certification of all technicians before they are allowed to open systems and
		appliances for repairs/service.
		10. Identify and procure necessary equipment and services required to comply with
		program.
		11. Communicate with contractors to ensure they understand and comply with company
		policies as described in this plan.
		12. Identify when it is necessary to order or add more refrigerant by communicating with the refrigerant technician(s).
		13. Oversee the transportation and disposal of refrigerant, used refrigerant, used oil, and
		parts.
		14. Identify risks associated with refrigerant use and communicate these risks to
		management.
		15. Ensure disciplinary procedures are in place for failures to comply.
		16. Monitor compliance and communicate deficiencies to management.
		17. Ensure pressure tests are conducted per Consent Decree and RCP requirements.
Technician	Follow the program,	1. Ensure recovery units meet EPA evacuation requirements and that units are properly
	complete records	tested and maintained per OEM requirements.
	legibly, accurately and	
	completely as directed.	

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		 Inspect certified refrigerant recovery or recycling equipment before each use to verify that it is functioning properly and repair or replace any equipment that is not functioning correctly before servicing any appliances. Conduct service only in accordance with level of certification. Ensure refrigerants are not vented during servicing. Follow Trident Seafoods refrigerant SOPs. Maintain, leak test, and repair Large Appliances. Conduct (and document) initial and follow-up verification tests when repairing leaks. Pressure test and vacuum test all systems and appliances to required levels. Follow procedures to eliminate refrigerant contamination and mixing. Communicate with the Maintenance Manager/Chief Engineer regarding when it is necessary to order or add more refrigerant based on system operations. Complete proper documentation whenever repairing leaks or performing maintenance. Document all regular leak checks.
		13. Complete required records legibly, accurately, and completely.
Other Trained	Complete leak checks	Perform leak inspection on large system when fixed leak detection system indicates a
Person/Qualified	and associated	possible leak.
Person	documentation per	2. Document all regular leak checks.
	program requirements	3. Complete required records legibly, accurately, and completely.

Procedures

Covered Systems and Appliances

Trident Seafoods owns and operates fishing, tendering, processing, and support vessels and fish processing facilities throughout Washington State and Alaska. Additionally, Trident Seafoods owns and operates fish processing facilities in Minnesota and Georgia. Trident Seafoods uses refrigerants for chilling, freezing, and holding/storage of fish and fish products, and refrigerant is used in plate freezers, spiral freezers, blast freezers, ice makers, RSW chillers and other types of evaporators.

A separate, annual forms workbook will be maintained for each facility/vessel system. The Consent Decree's definitions of "facility" and "vessel" are included in the *Glossary*, and may be referenced to ensure all facilities and vessels covered in the Consent Decree follow the required regulation.

Electronic Records Portal (per Consent Decree)

Trident Seafoods uses an Electronic Records Portal, or Refrigerant SharePoint site to share and store documents related to 40 CFR Part 82, this RCP, and the Consent Decree. The SharePoint site will allow for the electronic availability of all applicable records.

Records will be uploaded to the SharePoint site according to the following schedule:

- a) Large Appliances with a **full charge of 5,000 or more pounds of covered refrigerant**: Records will be uploaded **no less than once per week**.
- b) Large Appliances with a **full charge of between 50 and 5,000 pounds of Class I or Class II refrigerant**: Records will be uploaded as soon as practicable, but **no less than once per month**.

Recordkeeping System

Compliance obligations are documented by each facility and large vessel largely by using an annual Excel Forms Workbook and maintaining copies of supporting records on the SharePoint site. Small vessel documentation is maintained in a binder onboard the vessel, with copies of completed records uploaded to, and maintained on SharePoint. A Small Vessel Excel Forms Workbook will also be maintained for each small vessel on SharePoint, however, the workbook for each small vessel will be maintained by the IRCM, or if the vessel has a certified technician onboard, this may be delegated to the onboard certified technician (see the *Forms and Records for Small Vessels* section below). All records will be uploaded to SharePoint in accordance with the *Electronic Records Portal* section of this manual.

The following is a list of forms used and supporting documentation required.

Note that for the purposes of this recordkeeping system, *Logs* are maintained electronically, while *Records* are printed or copied, filled in by hand, and scanned for electronic storage. Both logs and records must be maintained on the Electronic Records Portal. Scanned copies of documents are considered originals. Original records must be kept for 5 years.

If records are corrected, the original entry shall be marked out with a single line, and the revised entry noted, dated and initialed. For corrections to log (electronic form) entries, the following information must be noted in the log (electronic form), or on a correction log:

- The original entry,
- The corrected entry,

- The reason for the correction,
- The date of the correction.

Forms and Records for Large Vessels/Facilities

- Form A Certified Technician Log: Certification data is entered, cards are scanned and maintained on SharePoint.
- **Form B Certified Contractor Technician Log:** Certification data is entered, cards of each contractor employee are scanned and maintained on SharePoint.
- Form C Recovery Devices Log: Data on the recycling/recovery units at the facility/on the vessel are entered.
- Form D Appliance Disposal Record: Any disposal of an appliance is documented on this form. This form will be printed out, filled out by hand, and scanned as a PDF. Completed forms in PDF will be maintained on SharePoint.
- Form E Refrigerant Systems Log (>5 lbs.): Required information on appliance(s) at the facility/on the vessel is entered.
- Form F Tracking Log: Entries are required each time refrigerant is added to or removed from a system. There are two (2) versions of Form F: one for systems with a charge of 50 or more pounds, and one for systems with a charge of between 5 and 50 pounds. Use the applicable Form F provided in the forms workbook. Each system has a separate Form F. A leak rate is calculated on the second page for Large Appliances. Whenever the full charge of a Large Appliance changes, a new Form F must be started.
- Form G Inventory Tracking Log: Entries are required for vessels whenever refrigerant is added to or removed from inventory (per MARPOL and Trident policy).
- Form H Maintenance Log: All maintenance, repairs, and leaks are entered into this log. Each Large Appliance has a separate Form H.
- Form I Leak Repair Record: Repairs to the system and leak verification tests are documented on this form. This form will be printed out, filled out by hand, and scanned as a PDF. Completed forms in PDF are maintained on SharePoint.
- Form J System Leak Inspection Record: Leak inspections on the system are documented on this form. This form will be printed out, filled out by hand, and scanned as a PDF. Completed forms in PDF are maintained on SharePoint.
- Form K Plate Freezer Leak Inspection Record: Leak inspections on plate freezers are documented. Information is entered for each plate freezer leak. This form will be printed out, filled out by hand, and scanned as a PDF. Completed forms in PDF are maintained on SharePoint.
- Form L System Pressure Test Record: The results of system pressure tests are recorded. The leaks found by the pressure test and repairs to those leaks are documented. This form will be printed out, filled out by hand, and scanned as a PDF. Completed forms in PDF are maintained on SharePoint.
- Form M1 Reserved for small vessels only.
- Form M2 Reserved for small vessels only.
- Form N Fixed Leak Detector Calibration Log: Maintenance and calibrations of all fixed leak detection systems are documented.
- Form O Leak Detector Alarm Log: Leaks that are detected by fixed leak detectors are documented.

Forms and Records for Small Vessels

The following forms will be assembled into a binder for each of the small vessels. Completed forms will be printed, filled out by hand, and scanned as a PDF. Completed forms will be emailed to

<u>envcompliance@tridentseafoods.com</u>, reviewed for completeness by the **IRCM**, and maintained on SharePoint.

- Form D Appliance Disposal Record: Any disposal of a system is documented on this form.
- Form J System Leak Inspection Record: Leak inspections on the system are documented on this
 form.
- Form L System Pressure Test Record: The results of system pressure tests are recorded. The leaks found by the pressure test and repairs to those leaks are documented.
- Form M1 Leak Repair/Service Record: All charging, evacuation, maintenance, testing, inspections, servicing, repairs, and initial and follow-up verification tests to refrigeration systems are recorded on this form. This form is for internal and contractor use.
- Form M2 Leak Repair/Service Record for Multiple Leaks: This form is used in place of page 2 of form M1 when multiple leaks are discovered. This form is for internal and contractor use.

A copy of **Form E – Refrigerant Systems Log (>5 lbs.)** will be inserted into the cover of each vessel's binder.

The following forms related to each small vessel's systems will be maintained by the **IRCM** on SharePoint:

- Form E Refrigerant Systems Log (>5 lbs.): Required information on system(s) on the vessel is entered.
- Form F Tracking Log: Entries are required each time refrigerant is added to or removed from a system. There are two (2) versions of Form F: one for systems with a charge of 50 or more pounds, and one for systems with a charge of less than 50 pounds. Use the applicable Form F provided in the forms workbook. Each system has a separate Form F. A leak rate is calculated on the second page for systems with a charge of 50 or more pounds when necessary. Whenever the full charge of a system changes, a new Form F must be started.

Forms, Logs and Records Management

Forms workbooks must be maintained on 12 month basis, based on calendar year. Each year the workbook will be saved by calendar year and a new one started. New workbooks will be provided to each facility/vessel at the start of each calendar year by the **IRCM**. Year-end information will be transferred to the new workbook each year.

Large Vessels/Facilities

Forms workbooks will be maintained by the **Chief Engineer/Maintenance Manager**. Vessels and facilities with sufficient internet speed will maintain the records on, and upload all supporting documents to, the Trident Refrigerant SharePoint site directly. Vessels and facilities with insufficient internet speed will maintain the forms workbook on a local computer or server, and email a current copy of the workbook to envcompliance@tridentseafoods.com each time the system is charged with refrigerant. These facilities will email each supporting record upon the completion of each record.

Small Vessels

The **Captain** of each small vessel will maintain original records in a binder onboard the vessel. As each record is completed, the **Captain** will ensure that each form is scanned and emailed to envcompliance@tridentseafoods.com. Excel forms for each small vessel will be maintained by the **IRCM**

on the Trident Refrigerant SharePoint site, populated with data from forms emailed from the vessel. Scanned forms will be uploaded to the Trident Refrigerant SharePoint site after receipt.

The **ICRM** must ensure all electronically completed workbooks are retained for at least five (5) years after the Consent Decree has been terminated. The **IRCM** will also ensure that all electronic documents are saved onto an alternative storage device subject to regular backups and maintained for at least five (5) years after the Consent Decree has been terminated.

Retention of Logs and Records (per Consent Decree)

All logs and records must be maintained in their original form. Trident may create separate, supplemental records, but original records will not be erased, changed, or replaced, and supplemental records will accurately reflect the date and circumstance under which they were created.

The **IRCM** must ensure that all Logs and Records must be retained for at least 5 years after the Consent Decree is terminated.

At least 90 days before the documents are to be destroyed after the Consent Decree has been terminated (after at least three years), the **IRCM** must notify EPA and deliver documents to EPA if requested.

Standard Operating Procedures

The following Standard Operating Procedures (SOPs) are attached to this manual as Appendix A. These procedures should be used whenever completing an applicable task.

- 1. SOP-01 Leak Inspection Parameters
- 2. SOP-02 Leak Repair Documentation Process
- 3. SOP-03 Refrigerant Recovery
- 4. SOP-04 Leak Detection Methods
- 5. SOP-05 System Leak Inspections
- 6. SOP-06 Plate Freezer Leak Inspections
- 7. SOP-07 System Pressure/Vacuum Test
- 8. SOP-08 System Pressure Test Using Refrigerant
- 9. SOP-09 System Integrity Inspection
- 10. SOP-10 Awareness to Reduce System Leaks/Damage
- 11. SOP-11 Maintaining System Dye
- 12. SOP-12 Automatic Leak Detector Settings and Configuration

Refrigerant Tracking in Systems and Appliances

The requirements for tracking refrigerant in systems and appliances vary based upon the size of the system. See the applicable section: *Small Appliances (Appliances & Systems with Charges at or under 5 Pounds, Medium Appliances (Appliances & Systems with Charges between 5 and 50 Pounds)*, and/or *Large Appliances (Appliances & Systems with Full Charges of 50 or More Pounds)* for a description of applicable requirements.

Refrigerant Tracking in Inventory

A log must be maintained to track covered refrigerants, beginning from the time they are supplied to the facility/vessel. Inventory tracking is a requirement of MARPOL for certain vessels. However it is Trident's policy that all refrigerant in inventory will be tracked onboard vessels and at facilities.

Large Vessels/Facilities

Track covered refrigerant inventory on *Form G – Inventory Tracking Log*.

Small Vessels

Small vessels shall not maintain ANY refrigerant onboard in inventory; only refrigerant contained in appliances will be maintained on small vessels. If a small vessel requests to maintain inventory onboard, that vessel must employee a certified technician as a normal member of the crew, and must maintain records in the manner specified under Large Vessels. Additionally, this will only be permitted if explicitly authorized by the IRCM.

Certified Technicians

Large Vessels/Facilities

Use *Form A – Certified Technician Log* to keep records of certified technicians employed by the company. A copy of the certification must be kept at the facility/on the vessel.

Small Vessels

The **Captain** will ensure that only certified technicians perform work on systems as required by this section. If a new technician performs work on a system, scan the certified technician's Section 608 certification card and send a copy of the card to the **IRCM**.

The following must be certified by an EPA-approved technician certification program:

- 1. Technicians who maintain, service, or repair any appliances or systems that could be reasonably expected violate the integrity of the refrigerant circuit and therefore release refrigerants into the environment.
- 2. Technicians who dispose of appliances or systems, except for Small Appliances (<5 lb. charge) that could be reasonably expected to violate the integrity of the refrigerant circuit and therefore release refrigerants into the environment.

Activities reasonably expected to violate the integrity of the refrigerant include, but are not limited to:

- Attaching or detaching hoses and gauges to and from the appliance;
- Adding or removing refrigerant or components; and
- Cutting refrigerant lines.

The type of certification required depends on the type of refrigerant being used and the characteristics of the appliance or system being serviced. The four types of certification identified by EPA regulations are presented in Table 4. Type I, Type II, Type III, and Universal technicians can buy any refrigerant sold in containers of 20 pounds or more.

For a current list of EPA-approved certification programs, visit the following website: http://www.epa.gov/ozone/title6/608/technicians/608certs.html

Table 4. Technician certification types.

Type of Equipment Serviced	Certification Description	Level of Required Certification
Small Appliances (<5 lbs.), domestic refrigerators, window air conditioners, PTACs (hermetically sealed air conditioners), and vending machines.	Maintenance, service, or repair of Small Appliances.	Type I
High and very high pressure equipment, all R-22 systems.	Maintenance, service, repair, or disposal of medium-, high-, or very high-pressure appliances and systems, except small appliances.	Type II
Low pressure equipment, systems using HCFC-123 or CFC-11 (primarily chillers).	Maintenance, service, repair, or disposal of low-pressure appliances and systems.	Type III
All types.	Certified to perform all activities approved for Type I, II, and III technicians.	Universal*

^{*}Universal does not include motor vehicles.



NOTE: Copies of all certificates of all technicians employed by the company who maintain, service, and/or repair refrigeration equipment must be kept on file.

Contractors

Large Vessels/Facilities

Use *Form B – Certified Contractor Technician Log* to keep records of outside service providers.

Small Vessels

The **Captain** will ensure that only certified contractor technicians perform work on systems as required by this plan. Whenever a new certified contractor technician performs work on a system, scan the technician's Section 608 certification card and send a copy of the card to the **IRCM**.

The contractor shall be responsible and accountable for compliance with the EPA Clean Air Act (CAA) Section 608, 40 CFR Part 82, and any state and local codes for all refrigerant-related work. Contractor shall ensure that all contractor employees are made aware of the content of these practices prior to beginning work on refrigerant containing equipment.

The contractor shall provide only proper level EPA-certified technicians using EPA-certified and registered recovery/recycle units to perform work on refrigerant equipment.

The contractor shall submit the following information prior to starting any work (to the vessel/facility):

 A list of all service technician names and EPA certification numbers and level of certification (copies of EPA Certification Cards are acceptable).

The contractor will provide the following documentation for entry into Company records:

- Equipment Name/Number
- Manufacturer and Model number
- Serial number
- Location of equipment
- Refrigerant type
- Date of service
- Service, repair, or disposal description
- Quantity of refrigerant removed, recovered, recycled, reclaimed, or disposed of
- Quantity of lubricant disposed of, and method of disposal
- Detailed information on any leaks discovered and repaired
- Name(s) of EPA-certified service technicians who performed work
- Recovery/recycling units used on equipment
- Copy of technician certification card(s)

Trident will provide a form to be filled out by the contractor and submitted to the responsible Trident location representative along with any required repair records. Every effort will be made to secure these records before the contractor departs, or failing that, agreement will be reached on a submittal deadline. In either case, the records will be sent attention the IRCM to envcompliance@Tridentseafoods.com

Trident will instruct all contractors to preserve all non-identical copies of documents, records or other information that related in any manner to Trident's performance under the Consent Decree until 5 years after the termination of the Consent Decree.

Adding and Purchasing Refrigerant

The Maintenance Manager/Chief Engineer/Captain decides when it is necessary to order/add more refrigerant to a system or appliance based on their individual expertise and on the recommendations of technicians. More refrigerant is needed when minimal operational levels cannot be reliably maintained in system vessels, pumps are at risk of shutting down on low level repeatedly, or when product cannot be cooled or frozen adequately, or in an acceptable timeframe. When refrigerant is needed, it is obtained from Trident inventories, ordered from a refrigerant vendor, or obtained through a refrigeration contractor.

Refrigerant Recovery

Refrigerants will be recovered from systems and appliances in accordance with SOP-03 Refrigerant Recovery Procedures.

See the *Refrigerants* chapter of this manual for more information regarding refrigerant reuse and disposal.

Maintenance, Service, and Repairs

The maintenance, service, and repair requirements vary based upon the size of the system. See the applicable section: Small Appliances (Appliances & Systems with Charges at or under 5 Pounds, Medium Appliances (Appliances & Systems with Charges between 5 and 50 Pounds), and/or Large Appliances (Appliances & Systems with Full Charges of 50 or More Pounds) for a description of applicable requirements.

Disposal

The disposal requirements for appliances vary based upon the size of the system. See the applicable section: Small Appliances (Appliances & Systems with Charges at or under 5 Pounds, Medium Appliances (Appliances & Systems with Charges between 5 and 50 Pounds), and/or Large Appliances (Appliances & Systems with Full Charges of 50 or More Pounds) for a description of applicable requirements.

Refrigerants

Health and Safety Issues

All fluorocarbon refrigerants are heavier than air and release can cause asphyxiation by displacing air in low-lying areas or confined and enclosed spaces. They also pose other safety and health risks. Consult the Safety Data Sheet (SDS) for details.

Purchasing, Selling, Distribution

Only certified Type I, Type II, Type III, or Universal technicians may purchase class I or class II refrigerants or non-exempt substitutes.

Purchasers of refrigerants who employ certified technicians may provide evidence that at least one technician is properly certified to the wholesaler who sells them refrigerant. The purchaser must notify the wholesaler in the event that the purchaser no longer employs at least one properly certified technician. The wholesaler is then prohibited from selling refrigerants to the purchaser until such time as the purchaser employs at least one properly certified technician. At that time, the purchaser must provide new evidence that at least one technician is properly certified.

Sellers of refrigerant must document the name of the purchaser, the date of the sale, and the quantity of refrigerant purchased. The seller must keep information provided by the purchaser indicating that the purchaser employs a certified technician. The wholesaler must then keep this information on file and may sell refrigerant to the purchaser or his authorized representative.

Used refrigerants may only be transferred <u>between or among a parent company and one or more of its subsidiaries</u>, <u>or between or among subsidiaries having the same parent company</u> (unless the used refrigerant is contained in an appliance or system).

Only **virgin or reclaimed refrigerant** may be transferred <u>from one owner to a different owner</u> for use as refrigerant. Whenever refrigerant is transferred to another company, an invoice must be generated that contains the following information:

- 1. Name of person/company receiving refrigerant
- 2. Date of transaction
- 3. Quantity of refrigerant transferred
- 4. Copy of Section 608 technician certification card on file for receiver of refrigerant (refrigerant may not be transferred to anyone without a technician certification card)

Venting and Releases

<u>Deliberate venting or release of CFC, HCFC, or HFC refrigerants to the atmosphere is prohibited.</u> The knowing release of refrigerant after its recovery from an appliance is a violation of the venting prohibition.

"De minimis" (insignificantly small) quantities of refrigerants released in the course of good faith attempts to recycle or recover refrigerants are not subject to the venting prohibition. Refrigerant releases are considered de minimis only if they occur when all EPA regulations are being followed for recycling and emissions reduction.

Used Refrigerant (Recovered, Reclaimed, Recycled)

Used refrigerants are usually recovered or recycled for re-use or recycled for re-sale. All recycling and recovery equipment used for recovering, reclaiming, or recycling refrigerants must be certified. See SOP-03 Refrigerant Recovery Procedures.

- **Recovered refrigerant** is refrigerant that is removed in any condition from an appliance or system and stored in an external container without necessarily testing or processing it in any way.

 Recovered refrigerant can be put back into the appliance or system, or into another appliance or system owned by the same owner as-is; otherwise it must be reclaimed or recycled.
- Recycled refrigerant is refrigerant that is recovered from an appliance and cleaned for reuse
 without meeting all of the requirements for reclamation. In general, recycled refrigerant is
 refrigerant that is cleaned using oil separation and single or multiple passes through devices, such as
 replaceable core filter-driers, which reduce moisture, acidity, and particulate matter. These
 procedures are usually implemented at the field job site. Recycled refrigerant can only be recharged
 back into the same owner's equipment.
- Reclaimed refrigerant is refrigerant that is reprocessed to meet specific EPA-prescribed standards applicable to the refrigerant. The reclaimed refrigerant can then be re-sold to other users.
 Reclamation of refrigerants can only be performed by EPA-certified reclaimers. An owner can send recovered refrigerant to an EPA-certified reclaimer. Reclamation of refrigerants can only be performed by EPA-certified reclaimers. EPA-certified reclaimers can be found at: http://www.epa.gov/ozone/title6/608/reclamation/reclist.html

Recovery and Recycling Equipment

See *SOP-03 Refrigerant Recovery Procedures* for more information regarding proper recovery procedures, equipment, and containers and for troubleshooting tips.

Large Vessels/Facilities

Fill out *Form C – Recovery Devices Log* to document all recovery and recycling equipment used on appliances or systems. Recovery devices must be certified by an approved equipment testing organization. Each location must maintain a separate recovery/recycling device.

Small Vessels

Any recovery and/or recycling will be completed in accordance with SOP-03 Refrigerant Recovery Procedures and all applicable regulations.

Storage of Refrigerants

Store refrigerant outdoors whenever possible. Do not store more than 330 pounds of refrigerant in a machinery room outside an appliance or system (see ASHRAE 15 and 26). If refrigerant is stored inside in other than machinery rooms, ensure adequate ventilation is installed and maintained in the space.

Large Vessels/Facilities

Refrigerant cylinders stored for use, and the covered refrigerant in all cylinders, will be tracked on *Form G – Inventory Tracking Log* and identified by cylinder number.

Small Vessels

Small vessels will not maintain ANY refrigerant onboard in inventory unless there is a certified technician on board the vessel; only refrigerant contained in appliances will be maintained on small vessels when there is no certified technician on board the vessel. See the *Refrigerant Tracking in Inventory* section of this manual for additional requirements.

Lubricants

Use

Use only the type of lubricant that is specified by both the system and refrigerant manufacturers. Do not mix lubricants in systems. Mixing of lubricants can cause system problems.

Disposal

Refrigerant oil is considered a hazardous waste if it contains more than 4,000 parts per million (ppm) of dissolved refrigerant and if it is not headed for reclamation. Most refrigerant oil that has been exposed to a refrigeration system or a recovery process contains greater than 5,000 ppm of dissolved refrigerant and acid gas. It is the contracted disposal service's responsibility to determine if used oil does or does not exceed the regulatory limits for toxicity characteristic (TC) constituents. Used oil that fails the TC must be disposed of in accordance with hazardous waste regulations. Because used oil from refrigeration equipment may contain appreciable levels of contaminants, it is important to maintain records that document the source of the oil and its ultimate disposal.



NOTE: Do not mix used refrigerant oils with other types of used oil!

Small Appliances (Appliances & Systems with Charges at or under 5 Pounds)

Definition of Small Appliance

A Small Appliance is any appliance that is fully manufactured, charged, and hermetically sealed in a factory with five (5) pounds or less or refrigerant, including, but not limited to, refrigerators and freezers (designed for home, commercial, or consumer use), medical or industrial research refrigeration equipment, room air conditioners (including window air conditioners and packaged terminal air heat pumps), dehumidifiers, under-the-counter ice makers, vending machines, and drinking water coolers.

MARPOL Requirements for Equipment Inventory (vessels only)

Vessels must maintain a list of all appliances and systems on vessels that 1) contain any ozone depleting substances, and 2) that are not permanently sealed.

Permanently sealed Small Appliances (meaning the appliance will not be worked on and refrigerant will not be added to or deliberately evacuated from the system) do not need to be included on the inventory list.

All Vessels

If a Small Appliance used on a vessel is NOT permanently sealed and contains an ozone depleting substance, list it on *Form E - Refrigerant Systems Log (>5 lbs.)*.

EPA Requirements for Tracking Refrigerants in Small Appliances

There are no EPA regulatory requirements for tracking refrigerants for Small Appliances.

Maintenance, Service, and Repairs

There are no regulatory requirements for keeping maintenance, service, or repair records or documentation for Small Appliances.

- 1. Only an appropriately certified technician may open a Small Appliance for maintenance, service, or repair.
- 2. If a Small Appliance is opened for maintenance, service, or repair, the refrigerant (including liquid refrigerant) must first be evacuated from the appliance. The refrigerant in either the entire unit or the part to be serviced (if it can be isolated) must be evacuated to the remaining portions of the appliance, or a specific vessel within the appliance, or a certified recovery or recycling machine. A technician must verify that the applicable level of evacuation has been reached in the appliance or the part before it is opened.
- 3. Following are the applicable refrigerant recovery levels from **Small Appliances** for purposes of maintenance, service, or repair:
 - The appliance must be evacuated to four inches of mercury vacuum, OR
 - 80% of the refrigerant must be recovered when using recycling and recovery equipment manufactured before November 15, 1993, OR

- 90% of the refrigerant must be recovered when using recycling and recovery equipment manufactured on or after November 15, 1993, and when the compressor in the appliance <u>is</u> <u>operating</u>, **OR**
- 80% of the refrigerant must be recovered when using recycling and recovery equipment manufactured on or after November 15, 1993, and when the compressor in the appliance <u>is not operating</u>.
- 4. Refrigerant may be returned to the appliance from which it is recovered or to another appliance owned by the same company without being recycled or reclaimed.

Disposal

All Vessels/Facilities

Fill out *Form D – Appliance Disposal Record* whenever you dispose of a Small Appliance.

When disposing of a Small Appliance, companies may:

1. **Recover any remaining refrigerant** from the appliance to the applicable levels outlined in Table 5, using a properly certified recovery and/or recycling device, **OR**

Table 5. Evacuation levels for Small Appliances.

Required Evacuation Levels for Appliances with Charges of 5 Pounds				
or Less				
All Small Appliances	Recovery Unit Manufactured Date			
Any <u>ONE</u> of the 3 methods below is acceptable.	Before Nov 15, 1993	After Nov. 15, 1993		
When compressor is working	80%	90%		
When compressor is not working	80%	80%		
Mercury vacuum level	4"	4"		

2. **Send the appliance to a final processor** (such as a scrap recycler or landfill operator) with all systems intact, even if refrigerant has leaked out. Ensure that none of the unit's systems or circuits are compromised (allowed to open to atmosphere) during the transport of the unit to the final processor.

Medium Appliances (Appliances & Systems with Charges between 5 and 50 Pounds)

Definition of Medium Appliance

A Medium Appliance is any appliance that normally contains between five (5) and 50 pounds of covered refrigerant.

MARPOL Requirements for Equipment Inventory (vessels only)

Vessels must maintain a list of all Medium Appliances and systems that contain any ozone depleting substances.

All Vessels/Facilities

List Medium Appliances on Form E - Refrigerant Systems Log (>5 lbs.).

IAPP-certified ships must document the full or partial recharge of all systems that contain ozone depleting substances, regardless of system size (MARPOL).

EPA Requirements for Tracking Refrigerants in Medium Appliances

There are no EPA regulatory requirements for tracking refrigerants added to Medium Appliances and systems with charges between 5 and 50 pounds; however, it is recommended.

Large Vessels/Facilities

When covered refrigerant is added to, or removed from, a Medium Appliance, the movement will be documented on *Form F – Tracking Log*. A separate *Form F* will be maintained for each Medium Appliance.

Small Vessels

When covered refrigerant is added to, or removed from, a Medium Appliance, the movement will be documented on *Form M1 – Leak Repair/Service Record*.

The IRCM will use Form M1 to fill out the Form F - Tracking Log for each small vessel.

Maintenance, Service, and Repairs

There are no regulatory requirements for keeping maintenance, service, or repair records or documentation for Medium Appliances.

- 1. Only an appropriately certified technician may open an appliance with a charge over 5 pounds for maintenance, service, or repair.
- 2. All persons opening a Medium Appliance for **maintenance**, **service**, **repair**, **or disposal** must have at least one piece of recovery and/or recycling equipment available at their business. Persons who maintain, service, repair, or dispose of only appliances that they own and that contain pump-out units are exempt from this requirement.
- 3. Prior to opening a Medium Appliance for maintenance, service, or repair, the refrigerant (including liquid refrigerant) must first be evacuated from the appliance to the applicable levels using a

properly certified recovery and/or recycling machine (see *Form D – Appliance Disposal Record* for required evacuation levels). Technicians may evacuate either the entire appliance or the part to be serviced, if the refrigerant in the part can be isolated to a system receiver. A technician must verify that the applicable level of evacuation has been reached in the appliance or the part before it is opened.

- 4. Following are **exceptions** to the evacuation requirement in item 3 above. In these cases, evacuation to the required levels may not be possible:
 - a) Evacuation of the appliance is not required prior to opening if evacuation to the atmosphere is not to be performed after completion of the maintenance, service, or repair, AND the maintenance, service, or repair does not require the removal of the compressor, condenser, evaporator, or auxiliary heat exchange coil, or the maintenance, service, or repair does not require uncovering an opening of more than four square inches of "flow area" for more than 15 minutes.

In the above case, the appliance must:

- be evacuated to a pressure no higher than 0 psig before it is opened if it is a medium,
 high- or very high-pressure appliance.
- be pressurized to a pressure no higher than 0 psig before it is opened if it is a low-pressure appliance.
- be pressurized to a pressure no higher than 5 psig only for oil changes.
- Evacuation of the appliance is not required prior to opening if, because of leaks in the appliance, evacuation to the required levels is not attainable or would substantially contaminate the refrigerant being recovered.
 - In such cases, the technician must try to isolate the leak from non-leaking components as much as possible, evacuate any non-leaking components to the required levels, and evacuate leaking components to the lowest level that can be attained without substantially contaminating the refrigerant (never below 0 psig).
- 5. Refrigerant may be returned to the appliance from which it is recovered or to another appliance owned by the same person or company without being recycled or reclaimed.

Disposal

Appliances and systems that are typically dismantled on-site before disposal must have the refrigerant recovered in accordance with EPA's requirements for servicing prior to their disposal.

See *SOP-03 Refrigerant Recovery Procedures* for more information regarding required evacuation practices.

All Vessels/Facilities

Fill out *Form D – Appliance Disposal Record* whenever you dispose of any appliance or system.

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If Trident decides to retrofit an existing Medium Appliance or purchase a new Medium Appliance, a replacement refrigerant or an exempt substitute refrigerant must be used.

Large Appliances (Appliances & Systems with Full Charges of 50 or More Pounds)

Definition of Large Appliance

The Consent Decree defines a Large Appliance as any industrial process refrigeration or commercial refrigeration equipment that normally contains more than 50 pounds of covered refrigeration.

Additionally, there are regulatory requirements for comfort cooling appliances with charges of 50 or more pounds of covered refrigerant. All procedures and policies in this manual apply to comfort cooling appliances, except for those labeled as Consent Decree requirements.

MARPOL Requirements for Equipment Inventory (vessels only)

Vessels must maintain a list of all Large Appliances and systems that contain any ozone depleting substances.

All Vessels/Facilities

List Large Appliances on Form E - Refrigerant Systems Log (>5 lbs.).

EPA Requirements for Tracking Refrigerants in Large Appliances

Large Vessels/Facilities

When covered refrigerant is added to, or removed from, a Large Appliance, the movement will be documented on *Form F – Tracking Log*. A separate Form F will be maintained for each Large Appliance.

Small Vessels

When covered refrigerant is added to, or removed from, a Large Appliance, the movement will be documented on *Form M1 – Leak Repair/Service Record*.

The IRCM will use Form M1 to fill out the Form F - Tracking Log for each small vessel.

Full Charge Determination

The full charge of a Large Appliance must be determined and recorded.

Recordkeeping: Large Vessels/Facilities

Record the full charge on Form E - Refrigerant Systems Log (>5 lbs.) and Form F - Tracking Log.

If the full charge of a Large Appliance changes for any reason during the year, the new full charge must be recorded with a description of how the charge was determined and the date of the revision. Fill out a **new row** in *Form E – Refrigerant Systems Log (>5 lbs.)* with the appliance information, date of charge determination, and new full charge. A new *Form F – Tracking Log* must be started for the appliance with the updated full charge.

Recordkeeping: Small Vessels

Maintain *Form E – Refrigerant Systems Log (>5 lbs.)* in the cover of the vessel's binder. If the full charge of a Large Appliance changes for any reason, contact the **IRCM**.

Procedures: Large Appliances with a Full Charge greater than 5,000 Pounds of Covered Refrigerant

Set the full charge by using the actual measurement of the amount of covered refrigerant added or evacuated from the Large Appliance, including for seasonal variances ("Method 3"). See Glossary for the definition of seasonal variance.

Procedures: Large Appliances with a Full Charge of Between 50 and 5,000 Pounds of Covered Refrigerant

If possible, set the full charge by using the actual measurement of the amount of covered refrigerant added or evacuated from the Large Appliance, including for seasonal variances ("Method 3").

This is possible when it is possible to weigh the refrigerant before it is put in the system, or if it is possible to pump out the refrigerant and weigh it and put it back in. When this is not possible due to operations, facility/vessels location, or for other valid reasons, as determined by the IRCM or Port Engineer, use appropriate calculations based on component sizes, density of refrigerant, volume of piping, and other relevant considerations ("Method 2"). If using this method, maintain detailed documentation of the calculations performed.

Comprehensive Leak Tests and Inspections (per Consent Decree)

Recordkeeping: All Vessels/Facilities

Use *Form L – System Pressure Test Record* to document the pressure test, any leaks found during the test, and any leak repairs made.

Procedures: Large Appliances with a Full Charge of 5,000 or More Pounds of Class I or Class II Refrigerant

At least **once each calendar year** beginning January 1, 2019, Trident will complete a pressure/vacuum test and inspection of each system. This test must be at least 6 months apart from previous and subsequent tests. To complete this inspection:

- 1. Evacuate the system to the levels specified in SOP-03 Refrigerant Recovery Procedures.
- 2. Complete a pressure/vacuum test per SOP-07 System Pressure/Vacuum Test.
- 3. Use SOP-05 System Leak Inspection Procedures to complete a leak check and identify any leaks.
- 4. Repair all leaks in accordance with the *Leak Repair* section of this manual.

Procedures: Large Appliances with a Full Charge of between 50 and 5,000 Pounds of Class I or Class II Refrigerant

At least **once every three calendar years** beginning January 1, 2019, complete a pressure/vacuum test and inspection of the system. To complete this inspection:

- 1. Evacuate the system to the levels specified in SOP-03 Refrigerant Recovery Procedures.
- 2. Complete a pressure/vacuum test per *SOP-07 System Pressure/Vacuum Test*. Use *SOP-05 System Leak Inspection Procedures* to complete a leak check and identify any leaks.
- 3. Repair all leaks in accordance with the *Leak Repair* section of this manual.

In each year in which a full vacuum/pressure test is not completed:

- 1. Complete a system pressure test using SOP-08 System Pressure Test Using Refrigerant.
- 2. Repair all leaks in accordance with the *Leak Repair* section of this manual.

This test must be at least 6 months apart from previous and subsequent tests.

Routine Leak Inspections

Recordkeeping: Large Vessels/Facilities

Maintain records of leak inspections on *Form J – System Leak Inspection Record*. If the facility or vessel uses plate freezers, inspect plate freezers using *Form K – Plate Freezer Leak Inspection Record*.

If using a system pressure test as a part of the leak inspection process, complete *Form L – System Pressure Test Record*.

Recordkeeping: Small Vessels

Maintain records of leak inspections on *Form J – System Leak Inspection Record*. If using a system pressure test as a part of the leak inspection process, complete *Form L – System Pressure Test Record*.

Procedures: Large Appliances with Full Charges of 5,000 or More Pounds of Covered Refrigerant on Vessels

The person in charge of the system **(Chief Engineer or Port Engineer)** shall ensure inspections are conducted on each component of the Large Appliance on a rolling basis at least once every 15 days while the Large Appliance is charged with refrigerant. During an Extended Layup, when refrigerant is isolated in components for storage, those components shall be inspected at least once every 30 days; inspections shall include the isolation valves. Components that are Pumped Out and Isolated or Pumped Down do not need to be inspected. Use *SOP-01 Leak Inspection Parameters*, *SOP-04 Leak Detection Methods & Procedures*, *SOP-05 System Leak Inspections* and/or *SOP-06 Plate Freezer Leak Inspections*, as necessary.

If using a system pressure test as a part of the leak inspection process, use SOP-07 System Pressure/Vacuum Test and/or SOP-08 System Pressure Test Using Refrigerant, as applicable.

Procedures: Large Appliances with Full Charges of Between 50 and 5,000 Pounds of Class I or Class II Refrigerant at Vessels and Facilities

As soon as possible, but no later than 48 hours **after adding refrigerant**, a qualified person will perform and document a system leak inspection.

As soon as possible, but no later than 48 hours **after a 100 ppm or higher alarm** from the fixed leak detection system, a qualified person will perform and document a leak inspection of components in the area of the fixed leak detector. Note: On a vessel during an Extended Layup, this inspection should occur as soon as possible, but no later than 96 hours after learning of an alarm at 100 ppm or higher.

At least once per year, beginning January 1, 2019, a qualified person will perform a system leak inspection. On vessels, the inspection shall take place prior to performing system Pump Down preparatory to shutting down the system for an Extended Layup. The system Pump Down will be performed as soon as practicable once the extended layup period is scheduled and the leak inspection of the charged system is completed.

Use SOP-01 Leak Inspection Parameters, SOP-04 Leak Detection Methods & Procedures, SOP-05 System Leak Inspections and/or SOP-06 Plate Freezer Leak Inspections, as necessary.

Procedures: After 1/1/2019, Large Appliances With Full Charges of Between: 50 and 5,000 Pounds of Covered Refrigerant at Vessels and Facilities

Leak inspections are required per the table below unless the trigger rate of a system is not exceeded for one year. Conduct the leak inspection using SOP-01 Leak Inspection Parameters. For additional procedures, use SOP-04 Leak Detection Methods & Procedures, SOP-05 System Leak Inspections and/or SOP-06 Plate Freezer Leak Inspections.

If using a system pressure test as a part of the leak inspection process, use SOP-07 System Pressure/Vacuum Test and/or SOP-08 System Pressure Test Using Refrigerant, as applicable.

Leak inspection schedules are specified in the table below:

Table 6. Leak inspection requirements for systems with a charge of 50 or more lbs.

Equipment	Full Charge	Frequency of Leak Inspection			
Commercial Refrigeration and IPR	≥ 500 pounds	Once every three months until the owner/operator can demonstrate that the leak rate has not exceeded the threshold for four quarters in a row, then once per calendar year allowed unless the leak rate is again exceeded.*			
	50 to 500 pounds	Once per calendar year.			
Comfort Cooling	≥ 50 pounds	Once per calendar year.			

^{*}Note: Once per calendar year is required per the Consent Decree regardless of leak rate.

Maintaining Leak Detection Systems

Automatic leak detection systems must be installed and maintained to meet the following specifications:

- 1. The system must be calibrated or audited in accordance with OEM recommended schedule or annually, whichever occurs first. Records must be maintained of all calibrations or audits.
- 2. If a fixed leak detection system detects the presence of refrigerant in air, it must meet the following specifications:
 - The system is located in an enclosed space;
 - The system monitors areas in proximity to compressors, evaporators, condensers, or other areas where there is a high potential for leaks;
 - The system accurately detects 10 parts per million of the refrigerant used in the process; and,
 - The system must alert when the refrigerant reaches a concentration of 100 parts per million.

Where an automatic leak detection system has been installed at a facility or vessel, fill out *Form N – Fixed Leak Detector Calibration Log* to track installation, calibration, and configuration of the system in accordance with *SOP-12 Automatic Leak Detector System Settings and Configuration*. If a fixed leak detector system alarms, record the detector name and location, date of the alarm, date of leak inspection in response to the alarm, whether a the leak was discovered and if so the leak location on *Form O – Leak Detector Alarm Log*.

Plate Freezer Leak Tracking System (per Consent Decree)

Complete *Form K – Plate Freezer Leak Inspection Record* when inspecting plate freezers. Complete *Form L – System Pressure Test Record* in lieu of Form K if the inspection is part of a full system pressure test.

No later than June 30, 2019, Trident will establish a plate freezer database. Trident will collate leak and leak repair information gathered from the Form K – Plate Freezer Leak Inspection Records and the Form L - System Pressure Test Records from the systems with plate freezers.

The database will have the ability to generate reports including potential trending information. This information may be used as part of a Corrective Action Plan.

Video Recordings

Procedures: Large Appliances with Full Charges of 5,000 or More Pounds of Covered Refrigerant at Vessels and Facilities

Beginning January 1, 2019, the **Chief Engineer/Maintenance Manager** will ensure a video recording is made of a qualified person conducting a leak inspection, leak repairs (if applicable), and verification tests (if applicable) and submit it to the **IRCM**. Thereafter, a video will be made annually and submitted it to the **IRCM**.

Procedures: Large Appliances with Full Charges of Between 50 and 5,000 Pounds of Class I or II Refrigerant at Vessels and Facilities

By January 31, 2024, the **IRCM** will ensure that at least one video inspection at each vessel or facility is made, and will ensure more if necessary are made to ensure that video inspections are completed on at least five vessels or facilities each year. For vessels and facilities with more than one large appliance, the video need only cover one such appliance.

Maintenance, Service, and Repairs

The **Technician** will maintain a log of maintenance, service, and repair activities performed on systems that contain refrigerants and that have charges of 50 or more pounds. See the *Leaks and Leak Repair* section when repairing a leak.

Large Vessels/Facilities

Complete Form H – Maintenance Log. Each Large Appliance has a separate Form H.

Small Vessels

Complete Form M1 – Leak Repair/Service Record and/or Form M2 – Leak Repair/Service Record for Multiple Leaks, as applicable.

- 1. Only an appropriately certified technician may open an appliance with a charge over 5 pounds for maintenance, service, or repair.
- 2. All persons opening an appliance with a charge of 50 or more pounds for **maintenance**, **service**, **repair**, **or disposal** must have at least one piece of properly certified recovery or recycling equipment available at their business. Persons who maintain, service, repair, or dispose of only appliances that they own and that contain pump-out units are exempt from this requirement.
- 3. Prior to opening an appliance with a charge of 50 or more pounds for maintenance, service, or repair, the refrigerant (including liquid refrigerant) must first be evacuated from the appliance to the applicable levels using a properly certified recovery and/or recycling machine (see Form D Appliance Disposal Record for required evacuation levels). Technicians may evacuate either the entire appliance or the part to be serviced, if the refrigerant in the part can be isolated to a system receiver. A technician must verify that the applicable level of evacuation has been reached in the appliance or the part before it is opened.
- 4. Following are **exceptions** to the evacuation requirement in item 3 above. In these cases, evacuation to the required levels may not be possible:
 - c) Evacuation of the appliance is not required prior to opening if evacuation to the atmosphere is not to be performed after completion of the maintenance, service, or repair, AND the maintenance, service, or repair does not require the removal of the compressor, condenser, evaporator, or auxiliary heat exchange coil, or the maintenance, service, or repair does not require uncovering an opening of more than four square inches of "flow area" for more than 15 minutes.

In the above case, the appliance must:

- be evacuated to a pressure no higher than 0 psig before it is opened if it is a medium,
 high- or very high-pressure appliance.
- be pressurized to a pressure no higher than 0 psig before it is opened if it is a low-pressure appliance.
- be pressurized to a pressure no higher than 5 psig only for oil changes.
- d) Evacuation of the appliance is not required prior to opening if, because of leaks in the appliance, evacuation to the required levels is not attainable or would substantially contaminate the refrigerant being recovered.
 - In such cases, the technician must try to isolate the leak from non-leaking components as much as possible, evacuate any non-leaking components to the required levels, and evacuate leaking components to the lowest level that can be attained without substantially contaminating the refrigerant (never above 0 psig).
- 5. Refrigerant may be returned to the system from which it is recovered to another system owned by the same person or company without being recycled or reclaimed.

Leak Repairs (per Consent Decree)

The following applies to all appliances and systems with full charges of equal to or greater than 50 pound of covered refrigerant:

- 1. All identified leaks that are visible and accessible will be repaired, regardless of how the leaks are discovered and regardless of the calculated leak rate. If a leak occurs in one of the following areas, it is not considered visible and accessible:
 - a. Where components are insulated, under ice that forms on the outside of equipment, underground, behind walls, or are otherwise inaccessible;
 - b. Where personnel must be elevated more than two meters above a support surface;
 - c. Where components are unsafe to inspect, as determined by site personnel.
- 2. Leaks will be repaired as soon as practicable, but no later than the deadlines specified in 40 CFR Part 82 Subpart F.
- 3. Initial and follow-up verification tests will be performed on all repairs in accordance with the schedule in SOP-02 Leak Repair Documentation Process.
- 4. All repairs will be made such that the annual leak rate is brought below the applicable leak rate outlined in the *Leak Rate Calculations* section.

Large Vessels/Facilities

Document all leak repairs and verification tests on *Form I – Leak Repair Record*. If refrigerant was added to replace a leak, complete an entry on *Form F – Tracking Log*.

If using a system pressure test as a part of the leak repair process, document leaks and leak repairs on **Form L – System Pressure Test Record**.

Small Vessels

Document leak repairs and verification tests on *Form M1 Part 1 and 2 – Leak Repair/Service Record* or Form M1 Part 1 and *Form M2 – Leak Repair/Service Record for Multiple Leaks*, as applicable.

If using a system pressure test as a part of the leak repair process, document leaks and leak repairs on **Form L – System Pressure Test Record**.

Leak Rate Calculations

Whenever refrigerant is added to an appliance with a full charge of 50 or more pounds, a leak rate calculation must be performed unless the addition is made immediately following a retrofit, installation of a new appliance, or qualifies as a seasonal variance (see the *Glossary* for a definition of seasonal variance).

The **leak rate** of a system is the rate at which the system is losing refrigerant, measured between refrigerant charges. The leak rate is expressed in terms of the percentage of the system's full charge that would be lost over a 12-month period if the current rate of loss were to continue over that period. Though two methods are allowed in the regulations for calculating the leak rate, Trident has agreed to only use the "annualized" method for all vessels and facilities in the Consent Decree. The "rolling average" method will not be used by Trident.

Refrigeration systems with a **full charge of 50 or more pounds** must not leak at a rate that would exceed a "**trigger leak rate**" (or trigger rate) during a 12-month period. Trigger rates are set by EPA. If a trigger leak rate is exceeded, see *SOP-02 Leak Repair Documentation Process* for more information on proper repair and reporting procedures.

The following types of refrigeration systems have unique trigger rates set by EPA:

Table 7. Trigger leak rates for systems with a charge of 50 or more lbs.

System	Rate
Industrial process refrigeration - complex customized appliances that are directly linked to the processes used in, for example, the chemical, pharmaceutical, petrochemical, and manufacturing industries. This sector also includes industrial ice machines, appliances used directly in the generation of electricity, and ice rinks. Where one appliance is used for both industrial process refrigeration and other applications, it will be considered industrial process refrigeration equipment if 50 percent or more of its operating capacity is used for industrial process refrigeration.	30%
Commercial refrigeration - the refrigeration appliances used in the retail food and cold storage warehouse sectors. Retail food appliances include the refrigeration equipment found in supermarkets, convenience stores, restaurants and other food service establishments. Cold storage includes the refrigeration equipment used to store meat, produce, dairy products, and other perishable goods.	20%
Comfort cooling - air-conditioning equipment.	10%
All other refrigeration	10%

Large Vessels/Facilities

Calculate the leak rate of a system on page two (2) of *Form F – Tracking Log*.

Small Vessels

Document covered refrigerant additions to appliances and systems on *Form M1 – Leak Repair/Service Record*.

The **IRCM** will use **Form M1** to calculate the leak rate of the system on page two (2) of the **Form F – Tracking Log** for each small vessel.

Form F – Tracking Log Overview

Form F – Tracking Log automatically calculates the leak rate of the system based on the information entered in the form. Unless otherwise indicated in the records, refrigerant added to an appliance to return it to normal operating characteristics and conditions is assumed to replace an equivalent amount of refrigerant lost. The form uses refrigerant additions to track the total refrigerant leaked from the appliance, taking into account all leaks, whether due to human error in operating appliances or intentional venting of an appliance.

Disposal

Appliances and systems that are typically dismantled on-site before disposal must have the refrigerant recovered in accordance with EPA's requirements for servicing prior to their disposal.

See *SOP-03 Refrigerant Recovery Procedures* for more information regarding required evacuation practices.

All Vessels/Facilities

Fill out Form D – Appliance Disposal Record whenever you dispose of any appliance or system.

Chronically Leaking Appliances (Annual Leak Rate Calculation)

An annual leak rate calculation must be performed to determine the percent of a system's full charge that leaked in a calendar year. The annual leak rate is automatically calculated on *Form F - Tracking Log*.

If an appliance leaks 125 percent or more of the full charge in a calendar year, the appliance is categorized as a chronically leaking appliance. Owners or operators must then submit a report to EPA detailing efforts to identify leaks and repair the appliance. (Note: The requirement for this reporting does not come into effect until 1/1/2019).

The report must be submitted by March 1 of the subsequent year. See the Section 608 Reporting Procedures section of this manual for addresses to which owners and operators must submit reports.

Corporate Responsibilities

Responsibility

The procedures in this section will be the responsibility of the **IRCM** unless a section specifically notes otherwise.

Annual Training

All employees who charge Large Appliances with covered refrigerant, or remove covered refrigerant from Large Appliances, or service, inspect, or maintain Large Appliances, or complete records or reports related to refrigerant, will undergo training on at least an annual basis, in accordance with the following procedures.

Schedule

Training will be conducted on at least an annual basis. The first annual training for active employees shall be completed no later than February 28, 2019. For seasonal employees, training will occur within 60 days of their reactivation, or no later than February 28, 2019, whichever is later.

Employees hired whose duties may include charging Large Appliances with covered refrigerant, removing covered refrigerant from Large Appliances, or servicing, inspecting, or maintaining Large Appliances or completing records or reports related to refrigerant, will complete training within 60 days of the employee's first day of employment, or no later than February 28, 2019, whichever is later.

Training will be organized and facilitated by the **IRCM**. However, ensuring each person covered by the plan and Consent Decree attends and participates in the required training is the responsibility of the **Facility/Vessel Manager**, the **Maintenance Manager/Chief Engineer**, and the **Port Engineers**.

Topics Covered

Training will address the following:

- 1. Relevant legal requirements under Section 608 of the Clean Air Act, 42 USC 7671g, and its implementing regulations at 40 CFR Part 82, Subpart F;
- 2. Trident's policies and procedures as described in the RCP, including physical demonstrations of conducting leak detection and repair activities using the procedures; and
- 3. Employees' and contractors' individual responsibilities as described in the RCP.

Training Documentation

Training will be documented, including:

- Name of trainer
- Name of online training module
- Name of trainee
- Date of training
- · Description of training, including topics covered
- · Means used to verify understanding

Training records must be kept and maintained for a minimum of 5 years after the Consent Decree has been terminated.

On-the-job Training

On-the-job training will also be provided for and verified by the **Maintenance Manager/Chief Engineer/Captain/Port engineer**, who will ensure each person who works on a system is qualified and adequately trained in the job tasks that they will perform.

Annual Refrigerant Loss Cap Program (per the Consent Decree)

The Annual Refrigerant Loss Cap Program ("Program") will apply to all Large Appliances containing Class I or Class II substances at any vessel or facility, including Large Appliances acquired after the effective date of the Consent Decree.

Release Limit

If Class I or Class II refrigerants are released from Program appliances in an amount that equals to or exceeds the following limits, Trident will complete the specified actions:

- a) If the amount released from all Program appliances exceeds 17.5%, Trident will develop a Corrective Action Plan (see the Consent Decree for Corrective Action Plan requirements).
- b) If the amount released from all Program appliances exceeds 25%, in addition to the Corrective Action Plan (see the Consent Decree for Corrective Action Plan requirements), penalties will apply.

Determining Amount Released

No later than February 28 of each calendar year beginning in 2020, Trident will determine the amount of Class I or Class II refrigerants released from each appliance during the preceding year. The **IRCM** will calculate the previous years' Annual Refrigerant Loss Rate using the calculations contained in the Consent Decree. The **IRCM** shall submit the information required by the Consent Decree Loss Cap Program to EPA by April 1, along with a Corrective Action Plan containing the information specified in the Consent Decree if such a plan is necessary.

When determining the amount of refrigerant released, Trident may petition to exclude refrigerant lost during one leak with causes extrinsic to the appliance (i.e. accidental physical damage of an appliance by other equipment, another vessel, or an operator). For more information on petitioning extrinsic leaks, see the Consent Decree.

Fixed Leak Detector Installation Procedures (per the Consent Decree)

Large Appliances with a Full Charge of 5,000 or More Pounds of Class I or Class II Refrigerant

Fixed leak detection systems will be installed by January 1, 2019.

Large Appliances with a Full Charge of Between 50 and 5,000 Pounds of Class I or Class II Refrigerant Located on a Vessel

Fixed leak detection systems will be installed when the vessel is undergoing triennial maintenance in dry dock or by January 31, 2022, whichever is earlier.

Large Appliances with a Full Charge of Between 50 and 5,000 Pounds of Class I or Class II Refrigerant Located at a Facility

Fixed leak detection systems will be installed by January 31, 2022.

New Large Appliances with Class I or II Refrigerant

If a new Large Appliance is installed during the pendency of the Consent Decree, a fixed leak detection system will be installed within 60 days of installation of the Large Appliance.

Fluorescent Dye

Large Appliances with a Full Charge of 5,000 or More Pounds of Class I or II Refrigerant

Fluorescent dye will be added to the appliance by January 1, 2019, using SOP-11 Fluorescent Dye.

Large Appliances with a Full Charge of between 50 and 5,000 Pounds of Class I or Class II Refrigerant Located on a Vessel

Fluorescent dye will be added when the vessel is undergoing triennial maintenance in dry dock or by January 31, 2022, whichever is earlier, using *SOP-11 Fluorescent Dye*.

Large Appliances with a Full Charge of between 50 and 5,000 Pounds of Class I or Class II Refrigerant Located at a Facility

Fluorescent dye will be added by January 31, 2022, using SOP-11 Fluorescent Dye.

New Large Appliances with Class I or II refrigerant Installed at any Vessel or Facility

If a new Large Appliance is installed at any vessel or facility during the pendency of the Consent Decree, fluorescent dye will be added within 60 days of placing the Large Appliance into service.

Fluorescent Dye Maintenance

Trident will continuously maintain fluorescent dye in all applicable appliances in accordance with the manufacturer's specifications and *SOP-11 Maintaining System Dye*, maintain an UV light at each vessel and facility that uses dye, and conduct inspections as described in *SOP-05 System Leak Inspections*.

Repair Extensions

Regulations allow more than 30 days (or 120 days if no longer processing) to make repairs and complete successful verification tests if the appliance is pumped out (mothballed) or if either of the following conditions apply:

- Other federal, state, or local regulations make a repair within 30 days (or 120 days if no longer processing) impossible. Additional time is permitted to the extent needed to comply with the pertinent regulations.
- Components that must be replaced as part of the repair are not available within 30 days (or 120 days if no longer processing). Additional time is permitted up to 30 days after receiving delivery of the necessary components, not to exceed 180 days (or 270 days if no longer processing) from the date the appliance exceeded the applicable leak rate.

Repairs to other leaks that contribute to the exceedance of the leak rate and that do not require additional time must be completed and verified within the initial 30 day repair period (or 120 days if no longer processing). Document all repair efforts and the reason for the inability to make the repair within the initial 30 day repair period (or 120 day repair period if no longer processing).

Request an extension from EPA at the address specified in the *Section 608 Reporting Procedures* in this section of the RCP. The request must be made within 30 days (or 120 days if no longer processing) of the appliance exceeding the leak rate. The request will be approved unless EPA notifies Trident Seafoods otherwise. Include the following in extension requests:

- 1. Identification and address of the facility;
- 2. Name of owner or operator of appliance;
- 3. Leak rate;
- 4. Method used to determine the leak rate and full charge;
- 5. Date the appliance exceeded the leak rate;
- 6. Location of leak(s) to the extent determined to date;
- 7. Any repair work that has been performed thus far;
- 8. An estimate of when the work will be complete.

If the estimated completion date is to be extended, submit a new estimated date of completion and documentation for the reasons for the change to EPA within 30 days of identifying that the completion date must be extended.

Keep a dated copy of the submission.

Retrofit or Retirement Plan for Leaking Appliances (per Section 608)

Create a retrofit or retirement plan within 30 days of:

- An appliance leaking above the applicable leak rate, and Trident Seafoods intends to retrofit or retire rather than repair the leak;
- An appliance leaking above the applicable leak rate, and Trident Seafoods fails to take any action to identify or repair the leak; or
- An appliance continues to leak above the applicable leak rate after repairs and verification tests have been conducted.

Include the following information in the plan:

- 1. Identification and location of the appliance;
- 2. Type and full charge of the refrigerant used in the appliance;
- 3. Type and full charge of refrigerant to which the appliance will be converted, if retrofitted;
- 4. Itemized procedure for converting the appliance to a different refrigerant, including changes required for compatibility with the new substitute, if retrofitted;
- 5. Plan for the disposition of recovered refrigerant;
- 6. A schedule, not to exceed one year, for completion of the retrofit or retirement.
- Ensure the plan is signed and dated by an authorized company official.

- Ensure the plan is accessible from the facility/vessel in which the appliance is located in paper copy or electronic format and available for EPA inspection upon request. Note this retrofit or retirement plan does not need to be automatically reported to EPA.
- Ensure all identified leaks are repaired as a part of any retrofit under such a plan.
- Unless granted additional time, perform all work in accordance with the plan and ensure it is
 finished within one year of the plan's date (not to exceed 13 months from when the plan was
 required).

Relief of Obligation: If Trident Seafoods can establish within 180 days of the plan's date that the appliance no longer exceeds the applicable leak rate and if Trident Seafoods agrees in writing to repair all identified leaks within one year of the plan's date, Trident Seafoods may request that EPA relieve it of the obligation to retrofit or retire the appliance.

In this case, submit to EPA the retrofit or retirement plan as well as the following information:

- 1. Date that the requirement to develop a retrofit or retirement plan was triggered;
- 2. The leak rate:
- 3. The method used to determine the leak rate and full charge;
- 4. The location of the leak(s) identified in the leak inspection;
- 5. A description of repair work that has been completed;
- 6. A description of repair work that has not been completed;
- 7. A description of why the repair was not conducted within the required time frames;
- 8. A statement signed by an authorized official that all identified leaks will be repaired and an estimate of when those repairs will be completed (not to exceed one year from date of the plan).

The request is considered approved unless EPA notifies Trident Seafoods within 60 days of receipt of the request that it is not approved.

Extension to the one-year schedule: Trident Seafoods may request more than one year to comply with the requirements. Refer to 40 CFR 82.157 for more information regarding extensions to retrofit and retirement plans.

Mothballing

The time-related requirements for repairing, retrofitting, or retiring a leaking system may be temporarily suspended while the system is mothballed. "Mothball" means to evacuate refrigerant from an appliance, or the affected isolated section or component of an appliance, to at least atmospheric pressure, and to temporarily shut down that appliance or the affected isolated section or component.

The time-related requirements resume on the day additional refrigerant is added to the appliance (or component of an appliance if the leaking component was isolated). System mothballing does not require a report to EPA unless the decision to temporarily mothball a system results in delaying an estimated completion date that has previously been submitted to EPA.

- Maintain documentation describing when the system was mothballed and when it was brought back on-line.
- Leak repairs following mothballing are still subject to initial and follow-up verification tests.

Retrofit or Retirement Plan (per Consent Decree)

Appliances with a Full Charge of 5,000 or more pounds of Covered Refrigerant

Trident Seafoods has committed to retrofitting or retiring Large Appliances on each of the following vessels with the following schedule:

Table 8. Consent Decree retrofit/retirement schedule.

Vessel	Retrofit or Retirement Date
Either the Independence or the Island	By January 31, 2022
Enterprise	
Eastern Wind	By January 31, 2024
Both the Island Enterprise and the	By January 31, 2026
Independence	
Kodiak Enterprise	By January 31, 2029
Seattle Enterprise	By January 31, 2029

Each Large Appliance that is retrofitted will use an exempt substitute.

Appliances with a Full Charge of between 50 and 5,000 pounds of Covered Refrigerant

Large Appliances on the *Entrance Point, Royal Viking*, the *Southern Wind*, *Northern Ram*, and the *Pacific Viking* with a full charge of between 50 and 5,000 pounds of covered refrigerant will be retrofitted to a replacement refrigerant or an exempt substitute, or retired by no later than January 31, 2022.

Large appliances on the following vessels will be retrofitted according to the following schedule:

Table 9. SEP retrofit/retirement schedule.

Vessel	Retrofit or Retirement Date
One vessel (Aldebaran, Marcy J,	By January 31, 2020
Northern Patriot, Gladiator)	
Three vessels (Aldebaran, Marcy J,	By January 31, 2021
Northern Patriot, Gladiator)	
Four vessels (Aldebaran, Marcy J,	By January 31, 2022
Northern Patriot, Gladiator)	

New Large Appliances

If Large Appliances are purchased or acquired during the pendency of the Consent Decree for the *Entrance Point, Royal Viking*, the *Southern Wind*, or the *Pacific Viking*, they must be retrofitted within 2 years of purchase or acquisition to use a replacement refrigerant or an exempt substitute.

Any Large Appliances purchased or acquired to replace Large Appliances on any vessel in the table above (SEP vessels), or the refrigeration capacity of those vessels, must be retrofitted within 2 years of purchase or acquisition and use an exempt substitute.

Medium Appliances

If a Medium Appliance is retrofitted or a new Medium Appliance acquired, it must use a replacement refrigerant or exempt substitute.

RCP Update Procedures (per the Consent Decree)

The **IRCM** will review this manual at least annually to ensure continuing compliance with regulations and the Consent Decree. Revisions will be also be made as necessary as part of a Corrective Action Plan (required when Annual Refrigerant Loss Cap Program limits are exceeded), or as necessary to account for changes in technology or circumstances.

Revisions to the RCP will be submitted to EPA by April 1 in the form and format specified in the Consent Decree. If EPA disapproves of the plan or provides edits, Trident will correct deficiencies or incorporate EPA's edits and resubmit the RCP within 45 days or other timeframe agreed to in writing.

Third Party Verification Procedures (per the Consent Decree)

Trident Seafoods will hire a Third Party Auditor to conduct audits and assess Trident's compliance with the requirements of the Consent Decree and all applicable regulatory requirements. See the Consent Decree for a detailed description of Third Party Auditor requirements and procedures. A response to each auditor's report shall be submitted by the **IRCM** to EPA within 60 days of receiving the report.

EPA Reporting Procedures (per the Consent Decree)

By April 1 each year, Trident Seafoods will submit records related to the proceeding calendar year to EPA: The records shall include:

- Records required by 40 CFR 82.157 and .166,
- Loss Cap Program Records,
- Records of any new large appliances put into service,
- Records of Comprehensive Leak Tests and Inspections,
- A list of all employees performing obligations under the Consent Decree, including which ones were trained in accordance with requirements,
- Access to, or copies of training materials other than the RCP and SOPs,
- Current copy of RCP including record of changes,
- Certification of compliance with RCP, and
- Any other records as specified in the Consent Decree.

Consent Decree Violation Reporting Procedures

If Trident Seafoods violates, or believes that they may violate, any requirement of the Consent Decree, Trident Seafoods will notify EPA of such violation and its likely duration, in writing, within 10 business days of the date Trident Seafoods becomes aware of the problem. An explanation of the violation's likely cause and duration, and remedial steps taken to prevent or minimize the violation will be included in the notification.

If Trident Seafoods commits a violation of the Consent Decree or any other event affecting Trident's performance under the Consent Decree that may pose an immediate threat to the public health or welfare or the environment, Trident Seafoods will notify EPA orally or by electronic transmission as soon as possible, but no later than 24 hours from the time they first knew of the violation or event.

If Trident Seafoods knows of an event that may cause a delay in fulfilling the performance of any obligation under the Consent Decree, Trident Seafoods will notify EPA orally or by electronic

transmission as soon as possible, but no later than 72 hours from the time they first knew of the occurrence or event. Further, a report will be provided, in writing, within 7 days that provides an explanation and/or description of the delay.

These timeframes for reporting Consent Decree violations do not supersede any applicable regulatory deadlines for spill or release reporting at the facilities and vessels. Trident Seafoods must still make any reports required by law, on the timeframe set by law.

For a detailed description of reporting Consent Decree violations to EPA, see the Consent Decree (Section XI).

Section 608 Reporting Procedures

Any notifications required by 40 CFR Part 82, Subpart F (and not by the Consent Decree) must be submitted electronically to 608reports@epa.gov unless the notification contains confidential business information.

If the notification contains confidential business information, the information should be submitted to:

Section 608 Program Manager
Stratospheric Protection Division
Mail Code: 6205T; U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Regulatory Requirements Glossary

Appliance means any device which contains and uses a class I or class II substance or substitute as a refrigerant and which is used for household or commercial purposes, including any air conditioner, motor vehicle air conditioner, refrigerator, chiller, or freezer. For a system with multiple circuits, each independent circuit is considered a separate appliance. The terms **system** and **appliance** are used interchangeably in this manual. (Also see definitions for Small Appliance, Medium Appliance, and Large Appliance).

Approved equipment testing organization means any organization which has applied for and received approval from the Administrator pursuant to 40 CFR 82.160.

CFC Chlorofluorocarbons (CFCs) are gas or liquid compounds that contain atoms of chlorine, fluorine, and carbon. CFCs are used as refrigerants, solvents, foam blowing agents, and in other smaller applications.

Class I refers to an ozone depleting substance that is listed in 40 CFR part 82 subpart A, appendix A (NOTE: Production and importation of CFCs and halons is no longer permitted under the Montreal Protocol. All use will cease as acceptable substitutes are found.).

Class II Substances refers to an ozone depleting substance that is listed in 40 CFR part 82 subpart A, appendix B.

Commercial refrigeration means the refrigeration appliances used in the retail food and cold storage warehouse sectors. Retail food appliances include the refrigeration equipment found in supermarkets, convenience stores, restaurants and other food service establishments. Cold storage includes the refrigeration equipment used to store meat, produce, dairy products, and other perishable goods.

Comfort Cooling means the air-conditioning appliances used to provide cooling in order to control heat and/or humidity in occupied facilities including but not limited to residential, office, and commercial buildings. Comfort cooling appliances include but are not limited to chillers, commercial split systems, and packaged roof-top units.

Component means a part of the refrigeration circuit within an appliance including, but not limited to, compressors, condensers, evaporators, receivers, and all of its connections and subassemblies.

Covered Refrigerant (per the Consent Decree) means any refrigerant as defined in 40 CFR 82.152, with the exception of any exempt substitute as defined in 40 CFR 82.152 and 82.154(a)(1).

Day, as defined in the Consent Decree, means a calendar day unless expressly stated to be a business day. In computing any period of time under the Consent Decree, where the last day would fall on a Saturday, Sunday, or federal holiday, the period shall run until the close of business of the next business day.

De Minimis means small unavoidable quantities of refrigerant released in the course of making goodfaith attempts to recapture and recycle or safely dispose of refrigerant.

Disposal means the process leading to and including:

- 1. The discharge, deposit, dumping or placing of any discarded appliance into or on any land or water:
- 2. The disassembly of any appliance for discharge, deposit, dumping or placing of its discarded component parts into or on any land or water;

- 3. The vandalism of any appliance such that the refrigerant is released into the environment or would be released into the environment if it had not been recovered prior to the destructive activity;
- 4. The disassembly of any appliance for reuse of its component parts; or
- 5. The recycling of any appliance for scrap.

Domestic means equipment typically made for use in households as opposed to commercially. Generally, these are smaller appliances.

Effective Date has the definition provided in Section XX of the Consent Decree.

Evacuate means to remove something (as gas or water) from, especially by pumping.

Exempted substitutes are: carbon dioxide, nitrogen, and water in any application; ammonia in commercial or industrial process refrigeration; chlorine and hydrocarbons in industrial process refrigeration; ethane (R-170) in very low temperature refrigeration equipment and equipment for non-mechanical heat transfer; and propane (R-290), isobutane (R-600a), and R-441A in various retail and household refrigerant applications.

Extended lay-up means a period of time lasting two weeks or longer in which a Vessel is in port, not actively preparing for production operations, and when each Large Appliance is Pumped Down.

Facility or **Facilities** means all land based facilities that contain at least one Large Appliance and that are owned or operated by Trident Seafoods as of the effective date of the Consent Decree, or which Trident may acquire during the effective period of the Consent Decree and that Trident has not transferred pursuant to Paragraph 4 of the Consent Decree.

Fixed Leak Detection System means a mechanical device installed on or near a Large Appliance(s) that is designed, located, and calibrated to detect the escape of covered refrigerant from said Large Appliance.

Follow-up verification test means those tests that involve checking the repairs to an appliance after a successful initial verification test and after the appliance has returned to normal operating characteristics and conditions and to verify that the repairs were successful. Potential methods for follow-up verification tests include, but are not limited to, the use of soap bubbles as appropriate, electronic or ultrasonic leak detectors, pressure or vacuum test, fluorescent dye and black light, infrared or near infrared tests, and handheld gas detection devices.

Freon® means, for purposes of this subpart, any substances consisting in part or whole of class I or class II ozone depleting substances (such as CFCs, HCFCs, and halons) that are used for heat transfer purposes and that provide a cooling effect. Other refrigerants, such as ammonia and CO₂, are not regulated in the same way and are not covered by this plan.

Full charge (per the Consent Decree) means the amount of covered refrigerant required for normal operating characteristics and conditions of a Large Appliance as determined in accordance with 40 CFR 82.152. For Large Appliances with a full charge greater than 5,000 pounds of refrigerant, the full charge will be determined by using the actual measurement of the amount of covered refrigerant added or evacuated from the Large Appliance, including for seasonal variances.

For Large Appliances with a full charge between 50 and 5,000 pounds of refrigerant, if Trident has actual measurements of the amount of refrigerant added or evacuated from the appliance, including for seasonal variances, the full charge will be set using that method; otherwise the full charge will be set by

using appropriate calculations based on component sizes, density of refrigerant, volume of piping, and other relevant considerations.

Global Warming Potential (GWP) indicates how well a gas traps heat in the atmosphere. Many of these gases remain in the atmosphere for thousands of years. The higher the GWP, the more heat the specific gas can keep in the atmosphere, and the faster the earth's climate will change.

Halons are compounds that contain bromine that are used primarily as fire extinguishing agents. Halons release ozone-destroying bromine, which is many times more effective at destroying ozone than chlorine.

HCFC Hydrochlorofluorocarbons (HCFCs), are a subset of CFCs. HCFCs are used primarily as refrigerants and also deplete the ozone layer, though much less quickly than CFCs. As a result, HCFCs have been used as transitional substitutes for CFCs as the United States moves toward eliminating use of ozone depleting substances.

High-pressure appliance means an appliance that uses a refrigerant with a liquid phase saturation pressure between 170 psia and 355 psia at 104 °F. This definition includes but is not limited to appliances using R-22, R-401A, R-401B, R-402A R-402B, R-407A, R-407C, R-408A, R-409A R-410A, R-411B, R-411B and R-502.

Industrial process refrigeration means complex customized appliances that are directly linked to the processes used in, for example, the chemical, pharmaceutical, petrochemical, and **manufacturing** industries. This sector also includes industrial ice machines, appliances used directly in the generation of electricity, and ice rinks. Where one appliance is used for both industrial process refrigeration and other applications, it will be considered industrial process refrigeration equipment if 50 percent or more of its operating capacity is used for industrial process refrigeration.

Industrial process shutdown means when an industrial process or facility temporarily ceases to operate or manufacture whatever is being produced at that facility.

Initial verification test means those leaks that are conducted after the repair is finished to verify that a leak or leaks have been repaired before refrigerant is added back to the appliance.

Large Appliance (per the Consent Decree) means any industrial process refrigeration or commercial refrigeration equipment, as defined in 40 CFR 82.152 that "normally contains" (as defined in in 40 CFR 82.152) more than 50 pounds of covered refrigerant.

Leak rate means the rate at which an appliance is losing refrigerant, measured between refrigerant charges. The leak rate is expressed in terms of the percentage of the appliance's full charge that would be lost over a 12-month period if the current rate of loss were to continue over that period. The rate must be calculated using one of two methods. The same method must be used for all appliances subject to the leak repair requirements located at an operating facility. Trident has agreed to use only the "annualized" method as part of the Consent Decree. The annualized method is described below:

1. Annualized Method:

Step 1. Take the number of pounds of refrigerant added to the appliance to return it to a full charge, whether in one addition or if multiple additions related to the same leak, and divide it by the number of pounds of refrigerant the appliance normally contains at full charge;

Step 2. Take the shorter of the number of days that have passed since the last day refrigerant was added or 365 days and divide that number by 365 days;

Step 3. Take the number calculated in Step 1 and divide it by the number calculated in Step 2; and

Step 4. Multiply the number calculated in Step 3 by 100 to calculate a percentage.

The annualized method is summarized in the following formula:

		STEP 1		STEPS 2 and 3			STEP 4
Leak Rate (% per year)	=	pounds of refrigerant added	•		365 days per year		100%
		pounds of refrigerant in full charge	_	shorter of:	O .		

Leak Inspection means the examination of an appliance to determine the location of refrigerant leaks. Potential methods include, but are not limited to, ultrasonic test, gas-imaging cameras, bubble tests as appropriate, or the use of a leak detection device operated and maintained according to the manufacturer guidelines. Methods that determine whether the appliance is leaking refrigerant but not the location of a leak, such as standing pressure/vacuum decay tests, sight glass checks, viewing receiver levels, pressure checks, and charging charts, must be used in conjunction with methods that can determine the location of a leak.

Low-Global-Warming-Potential Refrigerant (per the Consent Decree) means (i) a refrigerant with a global-warming potential ("GWP") equal to or less than the GWP of R-448A, or (ii) other refrigerant(s) with a GWP higher than that of R-448A that are approved by EPA pursuant to Section XII of the Consent Decree.

Low-loss fitting means any device that is intended to establish a connection between hoses, appliances, or recovery or recycling machines and that is designed to close automatically or to be closed manually when disconnected, minimizing the release of refrigerant from hoses, appliances, and recovery or recycling machines.

Low-pressure appliance means an appliance that uses a refrigerant with a liquid phase saturation pressure below 45 psia at 104°F. This definition includes but is not limited to appliances using R-11, R-123, R-113, and R-245fa.

Major maintenance, service, or repair means any maintenance, service, or repair that involves the removal of any or all of the following appliance components: compressor, condenser, evaporator, or auxiliary heat exchange coil; or any maintenance, service, or repair that involves uncovering an opening of more than four (4) square inches of "flow area" for more than 15 minutes.

Medium Appliance (per the Consent Decree) means any appliance that "normally contains" (as defined in 40 CFR 82.152) between 5 and 50 pounds of covered refrigerant.

Medium-pressure appliance means an appliance that uses a refrigerant with a liquid phase saturation pressure between 45 psia and 170 psia at 104°F. This definition includes but is not limited to appliances using R-114, R-124, R-12, R-401C, R-134a, R-406A, and R-500.

Mothball means to evacuate refrigerant from an appliance, or the affected isolated section or component of an appliance, to at least atmospheric pressure, and to temporarily shut down that appliance.

MVAC (Motor vehicle air conditioner) means any appliance that is a motor vehicle air conditioner as defined in 40 CFR part 82, subpart B.

MVAC-like appliance means mechanical vapor compression, open-drive compressor appliances with a normal charge of 20 pounds or less of refrigerant used to cool the driver's or passenger's compartment of an off-road motor vehicle. This includes the air-conditioning equipment found on agricultural or construction vehicles. This definition is not intended to cover appliances using R–22 refrigerant.

No longer processing means that the particular season has ended and that refrigeration equipment will no longer be used for freezing or chilling for a given season. For the purposes of this manual, the term *no longer processing* is equivalent to the regulatory definition of *industrial process shutdown*.

Non-exempt substitute means any chemical or product, whether existing or new, that is used by any person as an EPA approved replacement for a class I or II ozone depleting substance that is not exempt from deliberate venting (Exempted substitutes are: carbon dioxide, nitrogen, and water in any application; ammonia in commercial or industrial process refrigeration; chlorine and hydrocarbons in industrial process refrigeration; ethane (R-170) in very low temperature refrigeration equipment and equipment for non-mechanical heat transfer; and propane (R-290), isobutane (R-600a), and R-441A in various retail and household refrigerant applications).

Normal operating characteristics and conditions means appliance operating temperatures, pressures, fluid flows, speeds, and other characteristics, including the full charge of the appliance, that would be expected for a given process load and ambient condition during normal operation. Normal operating characteristics and conditions are marked by the absence of atypical conditions affecting the operation of the appliance.

Opening an appliance means any maintenance, service, repair, or disposal of an appliance that would release refrigerant in the appliance to the atmosphere. Connecting and disconnecting hoses and gauges to measure pressures, add refrigerant, or recover refrigerant from the appliance are not considered "opening an appliance."

Ozone Depleting Potential (ODP) indicates the amount of degradation to the ozone layer a gas can cause. The higher the ODP, the more ozone is destroyed.

Ozone Depleting Substances (ODS) are compounds that contribute to stratospheric ozone depletion. ODS include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), halons, methyl bromide, carbon tetrachloride, hydrobromofluorocarbons, chlorobromomethane, and methyl chloroform. Class I and class II substances are ozone depleting substances.

Parent company means an individual, corporation, partnership, association, joint-stock company, or an unincorporated organization that can direct or cause the direction of management and policies of another entity, through the ownership of shares or otherwise.

Permanently sealed equipment refers to refrigeration systems or appliances that are permanently (or hermetically) sealed so that there are no refrigerant charging connections or potentially removable components containing ozone depleting substances. By definition, small appliances are permanently sealed.

Person means any individual or legal entity, including an individual, corporation, partnership, association, state, municipality, political subdivision of a state, Indian tribe, and any agency, department, or instrumentality of the United States, and any officer, agent, or employee thereof.

Plate Freezer (per the Consent Decree) means freezers designed for freezing of products packed in pans that are pressed between plates in which refrigerant circulates through channels within the plates.

PSIG means pound-force per square inch gauge.

Pumped Down means when liquid refrigerant is moved internally within the appliance from system evaporators to be stored in the high side of the system or in other system components to minimize potential refrigerant loss. An appliance component is pumped down if refrigerant has been evacuated from the component to the maximum extent possible, taking into consideration equipment availability and the limitations of the appliance in which the component is a part.

Pumped-out and Isolated Component means a component of an appliance from which refrigerant has been evacuated to the levels specified in 40 CFR 82.156 and which is physically prevented from containing refrigerant through use of a valve, flange, or other device. A pumped-out and isolated component does not include the valve, flange, or other device used to prevent the component from containing refrigerant.

Reclaim means to reprocess refrigerant to certain specifications and to verify that the refrigerant meets these specifications.

Recover means to remove refrigerant in any condition from an appliance and to store it in an external container without necessarily testing or processing it any way.

Recovery efficiency means the percentage of refrigerant in an appliance that is recovered by a piece of recycling or recovery equipment.

Recycle, when referring to refrigerant, means to extract refrigerant from an appliance (except MVACs) and clean it for reuse in equipment of the same owner without meeting all of the requirements for reclamation. In general, recycled refrigerant is cleaned using oil separation and single or multiple passes through devices, such as replaceable core filter-driers, which reduce moisture, acidity, and particulate matter.

Refrigerant means, for purposes of this subpart, any substance, including blends and mixtures, consisting in part or whole of class I or class II ozone depleting substance or substitute that is used for heat transfer purposes and provides a cooling effect. Other refrigerants, such as ammonia and CO₂, are not regulated in the same way and are not covered by this plan.

Refrigerant circuit means the parts of an appliance that are normally connected to each other (or are separated only by internal valves) and are designed to contain refrigerant.

Replacement Refrigerant (per the Consent Decree) means a low-GWP, non-ODS refrigerant.

Retire, when referring to an appliance, means the removal of the refrigerant and the disassembly or impairment of the refrigerant circuit such that the appliance as a whole is rendered unusable by any person in the future.

Retrofit means to convert an appliance from one refrigerant to another refrigerant. Retrofitting includes the conversion of the appliance to achieve system compatibility with the new refrigerant and may include, but is not limited to, changes in lubricants, gaskets, filters, driers, valves, o-rings or appliance components.

Seasonal Variance means the removal of refrigerant from an appliance due to a change in ambient conditions caused by a change in season, followed by the subsequent addition of an amount that is less than or equal to the amount of refrigerant removed in the prior change in season, where both the removal and addition of refrigerant occurs within one consecutive 12-month period.

Self-contained recovery equipment means refrigerant recovery and/or recycling equipment that is capable of removing the refrigerant from an appliance without the assistance of components contained in the appliance.

Small appliance means any appliance that is fully manufactured, charged, and hermetically sealed in a factory with five (5) pounds or less or refrigerant, including, but not limited to, refrigerators and freezers (designed for home, commercial, or consumer use), medical or industrial research refrigeration equipment, room air conditioners (including window air conditioners and packaged terminal air heat pumps), dehumidifiers, under-the-counter ice makers, vending machines, and drinking water coolers.

Stratosphere is the upper part of the earth's atmosphere, characterized by an almost constant temperature throughout its altitude, which begins at about seven miles and continues to about 50 miles. The stratosphere is characterized by the presence of ozone gas (in the ozone layer) and by temperatures which rise slightly with altitude, due to the absorption of ultraviolet radiation.

Substitute means any chemical or product, whether existing or new, that is used as a refrigerant to replace a class I or II ozone depleting substance. Examples include, but are not limited to hydrofluorocarbons, perfluorocarbons, hydrofluoroolefins, hydrocarbons, ammonia, carbon dioxide, and blends thereof. As used in this subpart, the term "exempt substitutes" refers to certain substitutes when used in certain end uses that are specified in §82.154(a)(1) as exempt from the venting prohibition and the requirements of the applicable subpart, and the term "non-exempt substitutes" refers to all other substitutes and end uses not so specified in §82.154(a)(1).

System means any device, no matter how large or small, which contains and uses a **refrigerant** and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer. A **closed-loop system** is considered to be a **single appliance** or **single system**. The terms **system** and **appliance** are used interchangeably in this manual.

System-dependent recovery equipment means refrigerant recovery equipment that requires the assistance of components contained in an appliance to remove the refrigerant from the appliance.

System Receiver means the isolated portion of the appliance, or a specific vessel within the appliance, that is used to hold the refrigerant charge during the servicing or repair of that appliance.

Technician means any person who in the course of maintenance, service, or repair of an appliance (except MVACs) could be reasonably expected to violate the integrity of the refrigerant circuit and

therefore release refrigerants into the environment. Technicians also means any person who in the course of disposal of an appliance (except small appliances, MVACs, and MVAC-like appliances) could be reasonably expected to violate the integrity of the refrigerant circuit and therefore release refrigerants from the appliances into the environment. Activities reasonably expected to violate the integrity of the refrigerant circuit include but are not limited to: attaching or detaching hoses and gauges to and from the appliance; adding or removing refrigerant; adding or removing components; and cutting the refrigerant line. Activities such as painting the appliance, requiring an external electrical circuit, replacing insulation on a length of pipe, or tightening nuts and bolts are not reasonably expected to violate the integrity of the refrigerant circuit. Activities conducted on appliances that have been properly evacuated pursuant to 40 CFR 82.156 are not reasonably expected to release refrigerants unless the activity includes adding refrigerant to the appliance. Technicians could include but are not limited to installers, contractor employees, in-house service personnel, and owners and/or operators of appliances.

Vent means to release or discharge (gas, for example) through an opening.

Very high-pressure appliance means an appliance that uses a refrigerant with a critical temperature below 104°F or with a liquid phase saturation pressure above 355 psia at 104°F. Examples include but are not limited to appliances using R-13, R-23, R-503, R-508A, and R-508B.

Vessel or **Vessels** means any ships, boats, or other watercraft that contain at least one Large Appliance and that are owned or operated by Trident as of the effective date of the Consent Decree, or which Trident may acquire during the effective period of the Consent Decree.

Appendix A: Standard Operating Procedures

SOP	1:	Leak	Inspec	tion F	aramet	ers
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SOP 2: Leak Repair Documentation

SOP 3: Refrigerant Recovery

SOP 4: Leak Detection Methods

SOP 5: System Leak Inspections

SOP 6: Plate Freezer Inspections

SOP 7: System Pressure Vacuum Test

SOP 8: System Pressure Test Using Refrigerant

SOP 9: System Integrity Inspections

SOP 10: Awareness to Reduce Leaks/Damage to the System

SOP 11: Maintaining System Dye

SOP 12: Leak Detector Settings

Appendix B: Forms

Form A: Certified Technician Log

Form B: Certified Contractor Technician Log

Form C: Recovery Devices Log

Form D: Appliance Disposal Record

Form E: Refrigerant Systems Log

Form F: Tracking Log for Systems

Form G: Inventory Tracking Log

Form H: System Maintenance Log

Form I: Leak Repair Record

Form J: System Leak Inspection Record

Form K: Plate Freezer Leak Inspection Record

Form L: System Pressure Test Record

Form M: Leak Repair/Service Record (Verification Tests)

Form N: Fixed Leak Detector Calibration Record

Form O: Fixed Leak Detector Identification Record

Form P: Revisions Log