



**ASSOCIATION
OF AMERICAN
RAILROADS**

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September 21, 2007

CIRCULAR NO. OT-55-I

(CPC-1182)

SUBJECT: Recommended Railroad Operating Practices for Transportation of Hazardous Materials

TO MEMBERS AND PRIVATE CAR OWNERS:

Based on recommendations of the Inter-Industry Task Force on the Safe Transportation of Hazardous Materials by Rail, AAR published Circular No. OT-55 on January 4, 1990 to document recommended railroad operating practices for the transportation of hazardous materials. The circular included recommended road and yard operating practices, designation of key routes, proposed separations from hazmat storage areas, training of transportation employees, and implementation of TRANSCAER®, a national community outreach program to improve community awareness, emergency planning and incident response for the transportation of hazardous materials, criteria for shipper notification, and procedures for handling time sensitive materials.

Circular No. OT-55 has been modified to update the appendices of the hazardous materials impacted by OT-55. The appendices from OT-55-I dated July 17, 2006 should be replaced with the new appendices (below). For your convenience, included is a version showing the changes and a version with the changes accepted. Appendices A, B, C, and E have changes. Appendices D and F remain the same.

Sincerely,

Kenneth B. Dorsey

Appendix A:
List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(Hazard Zone A, B, C, or D)
Sorted by Hazard Class and Proper Shipping Name
September July 187, 20067

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
NON-FLAMMABLE GASES, HAZARD CLASS 2.2				
4904209	Ammonia, Anhydrous	UN 1005		
4904210	Ammonia, Anhydrous	UN 1005		
4904879	Ammonia, Anhydrous	UN 1005		
4904211	Ammonia, Solution	UN 3318		
POISON GASES, HAZARD CLASS 2.3				
4920359	Ammonia, Anhydrous	UN 1005		D
4920360	Ammonia, Solution	UN 3318		D
4920135	Arsine	UN 2188		A
4920349	Boron Trichloride	UN 1741		C
4920522	Boron Trifluoride	UN 1008		B
4920715	Bromine Chloride	UN 2901		B
4920343	Carbon Monoxide and Hydrogen mixture, Compressed	UN 2600		
4920399	Carbon Monoxide, Compressed	UN 1016		D
4920511	Carbon Monoxide, refrigerated liquid	NA 9202		D
4920559	Carbonyl Fluoride	UN 2417		B
4920351	Carbonyl Sulfide	UN 2204		C
4920523	Chlorine	UN 1017		B
4920189	Chlorine Pentafluoride	UN 2548		A
4920352	Chlorine Trifluoride	UN 1749		B
4920516	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920547	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920392	Chloropicrin and Methyl Chloride mixtures	UN 1582		B
4920527	Coal Gas, Compressed	UN 1023		C
4920101	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		A
4920324	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		B
4920300	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920301	Compressed Gas, toxic, corrosive, n.o.s.	UN3304		D
4920331	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920102	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		A
4920303	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		B
4920304	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		C
4920305	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		D
4920165	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		A
4920396	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		B
4920378	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		C
4920379	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		D
4920556	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920181	Compressed Gas, toxic, n.o.s.	UN 1955		A
4920570	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920375	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920373	Compressed Gas, toxic, n.o.s.	UN 1955		D

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920505	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920517	Compressed Gas, toxic, n.o.s.	UN 1955		
4920525	Compressed Gas, toxic, n.o.s.	UN 1955		
4920103	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		A
4920306	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		B
4920307	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		C
4920308	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		D
4920104	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		A
<u>4920117</u>	<u>Compressed gas, toxic, oxidizing, n.o.s.</u>	<u>UN3306</u>		<u>C</u>
<u>4920118</u>	<u>Compressed gas, toxic, oxidizing, n.o.s.</u>	<u>UN3306</u>		<u>D</u>
4920337	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		B
4920309	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		C
4920310	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		D
4920395	Cyanogen	UN 1026		B
4920178	Cyanogen Chloride, Stabilized	UN 1589		A
4920107	Diborane	UN 1911		A
4920398	Dichlorosilane	UN 2189		B
4920174	Dinitrogen Tetroxide	UN 1067		A
4920196	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920342	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920353	Ethylene Oxide or Ethylene Oxide with Nitrogen	UN 1040		D
4920180	Fluorine, Compressed	UN 1045		A
4920510	Gas Identification set	NA 9035		
4920536	Gas sample, non-pressurized, toxic, n.o.s.	UN 3169		
4920534	Gas sample, non-pressurized, toxic, flammable, n.o.s.	UN 3168		
4920354	Germane	UN 2192		B
4920515	Hexaethyl tetraphosphate and compressed gas mixtures	UN 1612		C
4920528	Hexafluoroacetone	UN 2420		B
4920502	Hydrogen Bromide, anhydrous	UN 1048		C
4920503	Hydrogen Chloride, anhydrous	UN 1050		C
4920504	Hydrogen Chloride, refrigerated liquid	UN 2186		C
4920348	Hydrogen Iodide, anhydrous	UN 2197		C
4920122	Hydrogen Selenide, anhydrous	UN 2202		A
4920513	Hydrogen Sulfide	UN 1053		B
4920115	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920116	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920302	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		B
4920322	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		C
4920323	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		D
4920550	Insecticide gases, toxic, n.o.s.	UN 1967		C
4920105	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		A
4920311	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		B
4920313	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		C
4920315	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		D
4920108	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		A

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920314	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		B
4920316	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		C
4920318	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		D
4920164	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		A
4920382	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		B
4920380	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		C
4920381	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		D
4920195	Liquefied gas, toxic, n.o.s.	UN 3162		A
4920368	Liquefied gas, toxic, n.o.s.	UN 3162		C
4920369	Liquefied gas, toxic, n.o.s.	UN 3162		D
4920383	Liquefied gas, toxic, n.o.s.	UN 3162		
4920531	Liquefied gas, toxic, n.o.s.	UN 3162		
4920571	Liquefied gas, toxic, n.o.s.	UN 3162		B
4920110	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		A
4920312	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		B
4920320	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		C
4920325	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		D
4920111	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		A
4920317	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		B
4920319	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		C
4920321	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		D
4920518	Methyl Bromide	UN 1062		C
4920355	Methyl Mercaptan	UN 1064		C
4920394	Methylchlorosilane	UN 2534		B
4920113	Nitric oxide and nitrogen dioxide mixtures or Nitric oxide and dinitrogen tetroxide mixtures	UN 1975		A
4920112	Nitric Oxide, Compressed	UN 1660		A
4920175	Nitrogen Trioxide	UN 2421		A
4920509	Nitrosyl Chloride	UN 1069		C
4920344	Oil Gas, Compressed	UN 1071		
4920530	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorus compound, mixed with compressed gas	NA 1955		C
4920173	Oxygen Difluoride, Compressed	UN 2190		A
4920535	Parathion and Compressed gas mixture	NA 1967		C
4920356	Perchloryl Fluoride	UN 3083		B
4920184	Phosgene	UN 1076		A
4920160	Phosphine	UN 2199		A
4920183	Phosphorus Pentafluoride	UN 2198		B
4920106	Selenium Hexafluoride	UN 2194		A
4920357	Silicon Tetrafluoride	UN 1859		B
4920167	Stibine	UN 2676		A
4920508	Sulfur Dioxide	UN 1079		C
4920187	Sulfur Tetrafluoride	UN 2418		A
4920526	Sulfuryl Fluoride	UN 2191		D

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920188	Tellurium Hexafluoride	UN 2195		A
4920347	Trifluoroacetyl Chloride	UN 3057		B
4920346	Trifluorochloroethylene, Stabilized	UN 1082		C
4920371	Tungsten Hexafluoride	UN 2196		B

FLAMMABLE LIQUIDS, HAZARD CLASS 3

4907434	Ethyl Isocyanate	UN 2481	I	A
4907409	Isobutyl Isocyanate	UN 2486	I	A
4909306	Isopropyl Isocyanate	UN 2483	I	A
4910370	Methacrylonitrile, Stabilized	UN 3079	I	B
4909307	Methoxymethyl Isocyanate	UN 2605	I	A

SPONTANEOUSLY COMBUSTIBLE, HAZARD CLASS 4.2

4916138	Pentaborane	UN 1380	I	A
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OXIDIZERS, HAZARD CLASS 5.1

4918505	Bromine Pentafluoride	UN 1745	I	A
4918507	Bromine Trifluoride	UN 1746	I	B
4918180	Tetranitromethane	UN 1510	I	B

POISONS, HAZARD CLASS 6.1

4921402	2-Chloroethanal	UN 2232	I	B
4921495	2-Methyl-2-Heptanethiol	UN 3023	I	B
4921741	3, 5-Dichloro-2, 4, 6-Trifluoropyridine	NA 9264	I	B
4921401	Acetone Cyanohydrin, Stabilized	UN 1541	I	B
4927007	Acrolein, Stabilized	UN 1092	I	A
4921019	Allyl Alcohol	UN 1098	I	B
4923113	Allyl Chloroformate	UN 1722	I	B
4921004	Allylamine	UN 2334	I	B
4923209	Arsenic Trichloride	UN 1560	I	B
4921727	Bromoacetone	UN 1569	II	B
4921558	Chloroacetone, Stabilized	UN 1695	I	B
4921009	Chloroacetonitrile	UN 2668	II	B
4923117	Chloroacetyl Chloride	UN 1752	I	B
4921414	Chloropicrin	UN 1580	I	B
4921746	Chloropivaloyl Chloride	NA 9263	I	B
4921248	Crotonaldehyde, Stabilized	UN 1143	I	B
4921010	Cyclohexyl Isocyanate	UN 2488	I	B
4921254	Diketene, Stabilized	UN 2521	I	B
4921405	Dimethyl Sulfate	UN 1595	I	B
4921251	Dimethylhydrazine, Symmetrical	UN 2382	I	B
4921202	Dimethylhydrazine, Unsymmetrical	UN 1163	I	B
4921020	Ethyl Chloroformate	UN 1182	I	B
4921745	Ethyl Phosphonothioic Dichloride, Anhydrous	NA 2927	I	B
4921742	Ethyl Phosphonous Dichloride, Anhydrous pyrophoric liquid	NA 2845	I	B

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HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4921744	Ethyl Phosphorodichloridate	NA 2927	I	B
4921404	Ethylidichloroarsine	UN 1892	I	B
4921420	Ethylene Chlorohydrin	UN 1135	I	B
4921497	Ethylene Dibromide	UN 1605	I	B
4927006	Ethyleneimine, Stabilized	UN 1185	I	A
4921722	Hexachlorocyclopentadiene	UN 2646	I	B
4921028	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions	UN 1613	I	B
4921239	Hydrogen Cyanide, solution in alcohol	UN 3294	I	B
4927014	Hydrogen Cyanide, stabilized	UN 1051	I	A
4927004	Iron Pentacarbonyl	UN 1994	I	A
4921211	Isobutyl Chloroformate	NA 2742	I	B
4921252	Isopropyl Chloroformate	UN 2407	I	B
4921245	Methanesulfonyl Chloride	UN 3246	I	B
4921438	Methyl Bromide and Ethylene dibromide mixtures, liquid	UN 1647	I	B
4927008	Methyl Chloroformate	UN 1238	I	A
4927012	Methyl Chloromethyl Ether	UN 1239	I	A
4921304	Methyl Iodide	UN 2644	I	B
4927009	Methyl Isocyanate	UN 2480	I	A
4921487	Methyl Isothiocyanate	UN 2477	I	B
4921255	Methyl Orthosilicate	UN 2606	I	B
4921695	Methyl Phosphonic Dichloride	NA 9206	I	B
4921008	Methyl Phosphonous Dichloride, pyrophoric liquid	NA 2845	I	B
4927022	Methyl Vinyl Ketone, Stabilized	UN 1251	I	A
4921275	Methyldichloroarsine	NA 1556	I	B
4927011	Methylhydrazine	UN 1244	I	A
4921730	n-Butyl Chloroformate	UN 2743	I	B
4927027	n-Butyl Isocyanate	UN 2485	I	B
4927010	Nickel Carbonyl	UN 1259	I	A
4921756	n-Propyl Chloroformate	UN 2740	I	B
4927025	n-Propyl Isocyanate	UN 2482	I	A
4921473	Perchloromethyl Mercaptan	UN 1670	I	B
4921216	Phenyl Isocyanate	UN 2487	I	B
4921413	Phenyl Mercaptan	UN 2337	I	B
4921587	Phenylcarbylamine Chloride	UN 1672	I	B
4921016	Phosphorus Trichloride	UN 1809	I	B
4921207	sec-Butyl Chloroformate	NA 2742	I	B
4927026	tert-Butyl Isocyanate	UN 2484	I	A
4923298	Thiophosgene	UN 2474	II	B
4921024	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921287	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921288	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4927028	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3389	I	A
4927099	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921003	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3384	I	B
4927019	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3383	I	A

Safety and Operations

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HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4921000	Toxic by Inhalation liquid, n.o.s.	UN 3382	I	B
4927018	Toxic by Inhalation liquid, n.o.s.	UN 3381	I	A
4921023	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3388	I	B
4927024	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3387	I	A
4921006	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3386	I	B
4927023	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3385	I	A
4921213	Trimethoxysilane	NA 9269	I	B
4921063	Trimethylacetyl Chloride	UN 2438	I	B
4821019	Waste Allyl Alcohol	UN 1098	I	B
4821722	Waste Hexachlorocyclopentadiene	UN 2646	I	B
4821261	Waste Toxic Liquid, corrosive, inorganic, n.o.s.	UN 3289	I	B
CORROSIVES, HAZARD CLASS 8				
4932010	Boron Tribromide	UN 2692	I	B
4936110	Bromine or Bromine Solutions	UN 1744	I	A
4936106	Bromine Solutions	UN 1744	I	B
4930204	Chlorosulfonic Acid	UN 1754	I	B
4933327	Ethyl Chlorothioformate	UN 2826	II	B
4930024	Hydrogen Fluoride, Anhydrous	UN 1052	I	C
4931201	Nitric Acid, red fuming	UN 2032	I	B
4932352	Phosphorus Oxychloride	UN 1810	II	B
4930050	Sulfur Trioxide, Stabilized	UN 1829	I	B
4936565	Sulfur Trioxide, Stabilized	UN 1829	I	B
4930030	Sulfuric acid, fuming	UN 1831	I	B
4930260	Sulfuryl Chloride	UN 1834	I	A
4932385	Titanium Tetrachloride	UN 1838	II	B
4935231	Trichloroacetyl Chloride	UN 2442	II	B
4830030	Waste Sulfuric acid, fuming	UN 1831	I	B

Appendix B:
List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(Hazard Zone A, B, C, or D)
Sorted by Hazmat Response Code #
September ~~July~~ 187, 20076

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4821019	Waste Allyl Alcohol	UN 1098	I	B
4821261	Waste Toxic Liquid, corrosive, inorganic, n.o.s.	UN 3289	I	B
4821722	Waste Hexachlorocyclopentadiene	UN 2646	I	B
4830030	Waste Sulfuric acid, fuming	UN 1831	I	B
4904209	Ammonia, Anhydrous	UN 1005		
4904210	Ammonia, Anhydrous	UN 1005		
4904211	Ammonia, Solution	UN 3318		
4904879	Ammonia, Anhydrous	UN 1005		
4907409	Isobutyl Isocyanate	UN 2486	I	A
4907434	Ethyl Isocyanate	UN 2481	I	A
4909306	Isopropyl Isocyanate	UN 2483	I	A
4909307	Methoxymethyl Isocyanate	UN 2605	I	A
4910370	Methacrylonitrile, Stabilized	UN 3079	I	B
4916138	Pentaborane	UN 1380	I	A
4918180	Tetranitromethane	UN 1510	I	B
4918505	Bromine Pentafluoride	UN 1745	I	A
4918507	Bromine Trifluoride	UN 1746	I	B
4920101	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		A
4920102	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		A
4920103	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		A
4920104	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		A
4920105	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		A
4920106	Selenium Hexafluoride	UN 2194		A
4920107	Diborane	UN 1911		A
4920108	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		A
4920110	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		A
4920111	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		A
4920112	Nitric Oxide, Compressed	UN 1660		A
4920113	Nitric oxide and nitrogen dioxide mixtures or Nitric oxide and dinitrogen tetroxide mixtures	UN 1975		A
4920115	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920116	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
<u>4920117</u>	<u>Compressed gas, toxic, oxidizing, n.o.s.</u>	<u>UN3306</u>		<u>C</u>
<u>4920118</u>	<u>Compressed gas, toxic, oxidizing, n.o.s.</u>	<u>UN3306</u>		<u>D</u>
4920122	Hydrogen Selenide, anhydrous	UN 2202		A
4920135	Arsine	UN 2188		A
4920160	Phosphine	UN 2199		A
4920164	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		A
4920165	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		A

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920167	Stibine	UN 2676		A
4920173	Oxygen Difluoride, Compressed	UN 2190		A
4920174	Dinitrogen Tetroxide	UN 1067		A
4920175	Nitrogen Trioxide	UN 2421		A
4920178	Cyanogen Chloride, Stabilized	UN 1589		A
4920180	Fluorine, Compressed	UN 1045		A
4920181	Compressed Gas, toxic, n.o.s.	UN 1955		A
4920183	Phosphorus Pentafluoride	UN 2198		B
4920184	Phosgene	UN 1076		A
4920187	Sulfur Tetrafluoride	UN 2418		A
4920188	Tellurium Hexafluoride	UN 2195		A
4920189	Chlorine Pentafluoride	UN 2548		A
4920195	Liquefied gas, toxic, n.o.s.	UN 3162		A
4920196	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920300	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920301	Compressed Gas, toxic, corrosive, n.o.s.	UN3304		D
4920302	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		B
4920303	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		B
4920304	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		C
4920305	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		D
4920306	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		B
4920307	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		C
4920308	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		D
4920309	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		C
4920310	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		D
4920311	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		B
4920312	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		B
4920313	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		C
4920314	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		B
4920315	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		D
4920316	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		C
4920317	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		B
4920318	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		D
4920319	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		C
4920320	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		C
4920321	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		D
4920322	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		C
4920323	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		D
4920324	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		B
4920325	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		D
4920331	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920337	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		B
4920342	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920343	Carbon Monoxide and Hydrogen mixture, Compressed	UN 2600		
4920344	Oil Gas, Compressed	UN 1071		

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920346	Trifluorochloroethylene, Stabilized	UN 1082		C
4920347	Trifluoroacetyl Chloride	UN 3057		B
4920348	Hydrogen Iodide, anhydrous	UN 2197		C
4920349	Boron Trichloride	UN 1741		C
4920351	Carbonyl Sulfide	UN 2204		C
4920352	Chlorine Trifluoride	UN 1749		B
4920353	Ethylene Oxide or Ethylene Oxide with Nitrogen	UN 1040		D
4920354	Germane	UN 2192		B
4920355	Methyl Mercaptan	UN 1064		C
4920356	Perchloryl Fluoride	UN 3083		B
4920357	Silicon Tetrafluoride	UN 1859		B
4920359	Ammonia, Anhydrous	UN 1005		D
4920360	Ammonia, Solution	UN 3318		D
4920368	Liquefied gas, toxic, n.o.s.	UN 3162		C
4920369	Liquefied gas, toxic, n.o.s.	UN 3162		D
4920371	Tungsten Hexafluoride	UN 2196		B
4920373	Compressed Gas, toxic, n.o.s.	UN 1955		D
4920375	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920378	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		C
4920379	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		D
4920380	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		C
4920381	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		D
4920382	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		B
4920383	Liquefied gas, toxic, n.o.s.	UN 3162		
4920392	Chloropicrin and Methyl Chloride mixtures	UN 1582		B
4920394	Methylchlorosilane	UN 2534		B
4920395	Cyanogen	UN 1026		B
4920396	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		B
4920398	Dichlorosilane	UN 2189		B
4920399	Carbon Monoxide, Compressed	UN 1016		D
4920502	Hydrogen Bromide, anhydrous	UN 1048		C
4920503	Hydrogen Chloride, anhydrous	UN 1050		C
4920504	Hydrogen Chloride, refrigerated liquid	UN 2186		C
4920505	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920508	Sulfur Dioxide	UN 1079		C
4920509	Nitrosyl Chloride	UN 1069		C
4920510	Gas Identification set	NA 9035		
4920511	Carbon Monoxide, refrigerated liquid	NA 9202		D
4920513	Hydrogen Sulfide	UN 1053		B
4920515	Hexaethyl tetraphosphate and compressed gas mixtures	UN 1612		C
4920516	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920517	Compressed Gas, toxic, n.o.s.	UN 1955		
4920518	Methyl Bromide	UN 1062		C
4920522	Boron Trifluoride	UN 1008		B
4920523	Chlorine	UN 1017		B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920525	Compressed Gas, toxic, n.o.s.	UN 1955		
4920526	Sulfuryl Fluoride	UN 2191		D
4920527	Coal Gas, Compressed	UN 1023		C
4920528	Hexafluoroacetone	UN 2420		B
4920530	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorus compound, mixed with compressed gas	NA 1955		C
4920531	Liquefied gas, toxic, n.o.s.	UN 3162		
4920534	Gas sample, non-pressurized, toxic, flammable, n.o.s.	UN 3168		
4920535	Parathion and Compressed gas mixture	NA 1967		C
4920536	Gas sample, non-pressurized, toxic, n.o.s.	UN 3169		
4920547	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920550	Insecticide gases, toxic, n.o.s.	UN 1967		C
4920556	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920559	Carbonyl Fluoride	UN 2417		B
4920570	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920571	Liquefied gas, toxic, n.o.s.	UN 3162		B
4920715	Bromine Chloride	UN 2901		B
4921000	Toxic by Inhalation liquid, n.o.s.	UN 3382	I	B
4921003	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3384	I	B
4921004	Allylamine	UN 2334	I	B
4921006	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3386	I	B
4921008	Methyl Phosphonous Dichloride, pyrophoric liquid	NA 2845	I	B
4921009	Chloroacetonitrile	UN 2668	II	B
4921010	Cyclohexyl Isocyanate	UN 2488	I	B
4921016	Phosphorus Trichloride	UN 1809	I	B
4921019	Allyl Alcohol	UN 1098	I	B
4921020	Ethyl Chloroformate	UN 1182	I	B
4921023	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3388	I	B
4921024	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921028	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions	UN 1613	I	B
4921063	Trimethylacetyl Chloride	UN 2438	I	B
4921202	Dimethylhydrazine, Unsymmetrical	UN 1163	I	B
4921207	sec-Butyl Chloroformate	NA 2742	I	B
4921211	Isobutyl Chloroformate	NA 2742	I	B
4921213	Trimethoxysilane	NA 9269	I	B
4921216	Phenyl Isocyanate	UN 2487	I	B
4921239	Hydrogen Cyanide, solution in alcohol	UN 3294	I	B
4921245	Methanesulfonyl Chloride	UN 3246	I	B
4921248	Crotonaldehyde, Stabilized	UN 1143	I	B
4921251	Dimethylhydrazine, Symmetrical	UN 2382	I	B
4921252	Isopropyl Chloroformate	UN 2407	I	B
4921254	Diketene, Stabilized	UN 2521	I	B
4921255	Methyl Orthosilicate	UN 2606	I	B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4921275	Methyldichloroarsine	NA 1556	I	B
4921287	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921288	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921304	Methyl Iodide	UN 2644	I	B
4921401	Acetone Cyanohydrin, Stabilized	UN 1541	I	B
4921402	2-Chloroethanal	UN 2232	I	B
4921404	Ethyldichloroarsine	UN 1892	I	B
4921405	Dimethyl Sulfate	UN 1595	I	B
4921413	Phenyl Mercaptan	UN 2337	I	B
4921414	Chloropicrin	UN 1580	I	B
4921420	Ethylene Chlorohydrin	UN 1135	I	B
4921438	Methyl Bromide and Ethylene dibromide mixtures, liquid	UN 1647	I	B
4921473	Perchloromethyl Mercaptan	UN 1670	I	B
4921487	Methyl Isothiocyanate	UN 2477	I	B
4921495	2-Methyl-2-Heptanethiol	UN 3023	I	B
4921497	Ethylene Dibromide	UN 1605	I	B
4921558	Chloroacetone, Stabilized	UN 1695	I	B
4921587	Phenylcarbylamine Chloride	UN 1672	I	B
4921695	Methyl Phosphonic Dichloride	NA 9206	I	B
4921722	Hexachlorocyclopentadiene	UN 2646	I	B
4921727	Bromoacetone	UN 1569	II	B
4921730	n-Butyl Chloroformate	UN 2743	I	B
4921741	3, 5-Dichloro-2, 4, 6-Trifluoropyridine	NA 9264	I	B
4921742	Ethyl Phosphonous Dichloride, Anhydrous pyrophoric liquid	NA 2845	I	B
4921744	Ethyl Phosphorodichloridate	NA 2927	I	B
4921745	Ethyl Phosphonothioic Dichloride, Anhydrous	NA 2927	I	B
4921746	Chloropivaloyl Chloride	NA 9263	I	B
4921756	n-Propyl Chloroformate	UN 2740	I	B
4923113	Allyl Chloroformate	UN 1722	I	B
4923117	Chloroacetyl Chloride	UN 1752	I	B
4923209	Arsenic Trichloride	UN 1560	I	B
4923298	Thiophosgene	UN 2474	II	B
4927004	Iron Pentacarbonyl	UN 1994	I	A
4927006	Ethyleneimine, Stabilized	UN 1185	I	A
4927007	Acrolein, Stabilized	UN 1092	I	A
4927008	Methyl Chloroformate	UN 1238	I	A
4927009	Methyl Isocyanate	UN 2480	I	A
4927010	Nickel Carbonyl	UN 1259	I	A
4927011	Methylhydrazine	UN 1244	I	A
4927012	Methyl Chloromethyl Ether	UN 1239	I	A
4927014	Hydrogen Cyanide, stabilized	UN 1051	I	A
4927018	Toxic by Inhalation liquid, n.o.s.	UN 3381	I	A
4927019	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3383	I	A
4927022	Methyl Vinyl Ketone, Stabilized	UN 1251	I	A
4927023	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3385	I	A

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4927024	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3387	I	A
4927025	n-Propyl Isocyanate	UN 2482	I	A
4927026	tert-Butyl Isocyanate	UN 2484	I	A
4927027	n-Butyl Isocyanate	UN 2485	I	B
4927028	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3389	I	A
4927099	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4930024	Hydrogen Fluoride, Anhydrous	UN 1052	I	C
4930030	Sulfuric acid, fuming	UN 1831	I	B
4930050	Sulfur Trioxide, Stabilized	UN 1829	I	B
4930204	Chlorosulfonic Acid	UN 1754	I	B
4930260	Sulfuryl Chloride	UN 1834	I	A
4931201	Nitric Acid, red fuming	UN 2032	I	B
4932010	Boron Tribromide	UN 2692	I	B
4932352	Phosphorus Oxychloride	UN 1810	II	B
4932385	Titanium Tetrachloride	UN 1838	II	B
4933327	Ethyl Chlorothioformate	UN 2826	II	B
4935231	Trichloroacetyl Chloride	UN 2442	II	B
4936106	Bromine Solutions	UN 1744	I	B
4936110	Bromine or Bromine Solutions	UN 1744	I	A
4936565	Sulfur Trioxide, Stabilized	UN 1829	I	B

Appendix C
Environmentally Sensitive Chemicals
(September 18, 2007/September 1, 2005)

Proper Shipping Name	Hazmat STCC
Allyl Chloride	4907412
Carbon Tetrachloride	4821831 / 4860106 / 4921830 / 4921831 / 4960115
Chlorobenzene	4909153
Chloroform	4921767/4921769
o-Dichlorobenzene	4915132 / 4925203
Dichloropropane (Propylene dichloride)	4909265
Dichloropropane/Dichloropropene mixture	4910234
Dichloropropene	4909255
Ethyl Chloride	4905712 / 4908129 / 4908162 /
Ethylene Dibromide (already listed as PIH)	
Ethylene Dibromide and Methyl Bromide Mixtures (already listed as PIH)	
Ethylene Dichloride	4909166 / 4912081/ 4908129 / 4910437 / 4913242 / 4913295 / 4921030
Epichlorohydrin	4921005
Methyl Chloroform (1,1,1 Trichloroethane)	4825182 / 4925182 / 4910463 / 4010475 / 4915969 / 4925310 / 4960205
Methylene Chloride (Dichloromethane)	4925131 / 4905764
Methylene chloride/chloroform mixture	4960150
Perchloroethylene (Tetrachloroethylene)	4825202 / 4910134 / 4840355 / 4925202
Perchloroethylene/Trichloroethylene mixture	4940373
Trichloroethylene	4925181

Appendix D
Time Sensitive Materials
July 17, 2006

Proper Shipping Name	Haz Mat STCC
20 Day	
Ethylene, refrigerated liquid	4905735
Hydrogen, refrigerated liquid	4905745
Vinyl Fluoride, stabilized	4905793
Chloroprene, stabilized	4907223
Flammable Liquid, n.o.s. (Methyl Methacrylate Monomer, uninhibited)	4907255
Hydrogen chloride, refrigerated liquid	4920504
30 day	
Styrene monomer, stabilized	4907265
Flammable Liquid, n.o.s. (Recycled styrene)	4910159
Styrene monomer, stabilized	4907235

Appendix E
Spent Nuclear Fuel (SNF) and High Level Radioactive Waste (HLRW)
July ~~September~~ 187, 20076

HMRC	Proper Shipping Description
4829142	Waste Radioactive Material, Type B(U) Package, Fissile
4829143	Waste Radioactive Material, Type B(M) Package, Fissile
4829144	Waste Radioactive Material, Transported Under Special Arrangement, Fissile
4929142	Radioactive Material, Type B(U) Package, Fissile
4929143	Radioactive Material, Type B(M) Package, Fissile
4929144	Radioactive Material, Transported Under Special Arrangement, Fissile

**Appendix F to
Circular OT-55**

Sample Request for Hazardous Materials Commodity Flow Information

March 1, 2005

[Company LOGO]

Request for Hazardous Materials COMMODITY FLOW INFORMATION

Organization Requesting Information : _____

Contact Person: _____

Phone Number: _____

Email Address: _____

Mailing Address: _____
(Street Address)

(City, State, Zip)

Geographical Description of Area for study: _____

Preferred method to receive report: Email U.S. Mail (Mark One)

By signing below I acknowledge and agree to the terms set forth by **[RAILROAD NAME]** for use and dissemination of the **[RAILROAD'S]** Hazardous Materials Commodity Flow Information . **[RAILROAD'S NAME]** considers this information to be restricted information of a security sensitive nature. I thus affirm and agree that the information provided by **[RAILROAD NAME]** in this report will be used solely for and by bona fide emergency planning and response organizations for the expressed purpose of emergency and contingency planning. This information will not be distributed publicly in whole or in part without the expressed written permission of **[RAILROAD NAME]**.

(Signature of person requesting commodity flow information)

Return Completed Form to: [INSERT RAILROAD NAME AND ADDRESS]

For [RAILROAD] Use Only

[PERSON RESPONSIBLE FOR APPROVAL]: ___ Yes ___ NO Date: _____

Hazardous Materials Service Support:

Date Request Received: _____

Time Period Covered: _____

Date Report Sent: _____

Report sent via: Email U.S. Mail

Appendix A:
List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(Hazard Zone A, B, C, or D)
Sorted by Hazard Class and Proper Shipping Name
September 18, 2007

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
NON-FLAMMABLE GASES, HAZARD CLASS 2.2				
4904209	Ammonia, Anhydrous	UN 1005		
4904210	Ammonia, Anhydrous	UN 1005		
4904879	Ammonia, Anhydrous	UN 1005		
4904211	Ammonia, Solution	UN 3318		
POISON GASES, HAZARD CLASS 2.3				
4920359	Ammonia, Anhydrous	UN 1005		D
4920360	Ammonia, Solution	UN 3318		D
4920135	Arsine	UN 2188		A
4920349	Boron Trichloride	UN 1741		C
4920522	Boron Trifluoride	UN 1008		B
4920715	Bromine Chloride	UN 2901		B
4920343	Carbon Monoxide and Hydrogen mixture, Compressed	UN 2600		
4920399	Carbon Monoxide, Compressed	UN 1016		D
4920511	Carbon Monoxide, refrigerated liquid	NA 9202		D
4920559	Carbonyl Fluoride	UN 2417		B
4920351	Carbonyl Sulfide	UN 2204		C
4920523	Chlorine	UN 1017		B
4920189	Chlorine Pentafluoride	UN 2548		A
4920352	Chlorine Trifluoride	UN 1749		B
4920516	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920547	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920392	Chloropicrin and Methyl Chloride mixtures	UN 1582		B
4920527	Coal Gas, Compressed	UN 1023		C
4920101	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		A
4920324	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		B
4920300	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920301	Compressed Gas, toxic, corrosive, n.o.s.	UN3304		D
4920331	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920102	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		A
4920303	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		B
4920304	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		C
4920305	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		D
4920165	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		A
4920396	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		B
4920378	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		C
4920379	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		D
4920556	Compressed Gas, toxic, n.o.s.	UN 1955		B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920181	Compressed Gas, toxic, n.o.s.	UN 1955		A
4920570	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920375	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920373	Compressed Gas, toxic, n.o.s.	UN 1955		D
4920505	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920517	Compressed Gas, toxic, n.o.s.	UN 1955		
4920525	Compressed Gas, toxic, n.o.s.	UN 1955		
4920103	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		A
4920306	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		B
4920307	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		C
4920308	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		D
4920104	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		A
4920117	Compressed gas, toxic, oxidizing, n.o.s.	UN3306		C
4920118	Compressed gas, toxic, oxidizing, n.o.s.	UN3306		D
4920337	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		B
4920309	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		C
4920310	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		D
4920395	Cyanogen	UN 1026		B
4920178	Cyanogen Chloride, Stabilized	UN 1589		A
4920107	Diborane	UN 1911		A
4920398	Dichlorosilane	UN 2189		B
4920174	Dinitrogen Tetroxide	UN 1067		A
4920196	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920342	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920353	Ethylene Oxide or Ethylene Oxide with Nitrogen	UN 1040		D
4920180	Fluorine, Compressed	UN 1045		A
4920510	Gas Identification set	NA 9035		
4920536	Gas sample, non-pressurized, toxic, n.o.s.	UN 3169		
4920534	Gas sample, non-pressurized, toxic, flammable, n.o.s.	UN 3168		
4920354	Germane	UN 2192		B
4920515	Hexaethyl tetraphosphate and compressed gas mixtures	UN 1612		C
4920528	Hexafluoroacetone	UN 2420		B
4920502	Hydrogen Bromide, anhydrous	UN 1048		C
4920503	Hydrogen Chloride, anhydrous	UN 1050		C
4920504	Hydrogen Chloride, refrigerated liquid	UN 2186		C
4920348	Hydrogen Iodide, anhydrous	UN 2197		C
4920122	Hydrogen Selenide, anhydrous	UN 2202		A
4920513	Hydrogen Sulfide	UN 1053		B
4920115	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920116	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920302	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		B
4920322	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		C
4920323	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		D
4920550	Insecticide gases, toxic, n.o.s.	UN 1967		C
4920105	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		A

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920311	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		B
4920313	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		C
4920315	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		D
4920108	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		A
4920314	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		B
4920316	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		C
4920318	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		D
4920164	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		A
4920382	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		B
4920380	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		C
4920381	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		D
4920195	Liquefied gas, toxic, n.o.s.	UN 3162		A
4920368	Liquefied gas, toxic, n.o.s.	UN 3162		C
4920369	Liquefied gas, toxic, n.o.s.	UN 3162		D
4920383	Liquefied gas, toxic, n.o.s.	UN 3162		
4920531	Liquefied gas, toxic, n.o.s.	UN 3162		
4920571	Liquefied gas, toxic, n.o.s.	UN 3162		B
4920110	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		A
4920312	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		B
4920320	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		C
4920325	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		D
4920111	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		A
4920317	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		B
4920319	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		C
4920321	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		D
4920518	Methyl Bromide	UN 1062		C
4920355	Methyl Mercaptan	UN 1064		C
4920394	Methylchlorosilane	UN 2534		B
4920113	Nitric oxide and nitrogen dioxide mixtures or Nitric oxide and dinitrogen tetroxide mixtures	UN 1975		A
4920112	Nitric Oxide, Compressed	UN 1660		A
4920175	Nitrogen Trioxide	UN 2421		A
4920509	Nitrosyl Chloride	UN 1069		C
4920344	Oil Gas, Compressed	UN 1071		
4920530	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorus compound, mixed with compressed gas	NA 1955		C
4920173	Oxygen Difluoride, Compressed	UN 2190		A
4920535	Parathion and Compressed gas mixture	NA 1967		C
4920356	Perchloryl Fluoride	UN 3083		B
4920184	Phosgene	UN 1076		A
4920160	Phosphine	UN 2199		A
4920183	Phosphorus Pentafluoride	UN 2198		B
4920106	Selenium Hexafluoride	UN 2194		A
4920357	Silicon Tetrafluoride	UN 1859		B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920167	Stibine	UN 2676		A
4920508	Sulfur Dioxide	UN 1079		C
4920187	Sulfur Tetrafluoride	UN 2418		A
4920526	Sulfuryl Fluoride	UN 2191		D
4920188	Tellurium Hexafluoride	UN 2195		A
4920347	Trifluoroacetyl Chloride	UN 3057		B
4920346	Trifluorochloroethylene, Stabilized	UN 1082		C
4920371	Tungsten Hexafluoride	UN 2196		B

FLAMMABLE LIQUIDS, HAZARD CLASS 3

4907434	Ethyl Isocyanate	UN 2481	I	A
4907409	Isobutyl Isocyanate	UN 2486	I	A
4909306	Isopropyl Isocyanate	UN 2483	I	A
4910370	Methacrylonitrile, Stabilized	UN 3079	I	B
4909307	Methoxymethyl Isocyanate	UN 2605	I	A

SPONTANEOUSLY COMBUSTIBLE, HAZARD CLASS 4.2

4916138	Pentaborane	UN 1380	I	A
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OXIDIZERS, HAZARD CLASS 5.1

4918505	Bromine Pentafluoride	UN 1745	I	A
4918507	Bromine Trifluoride	UN 1746	I	B
4918180	Tetranitromethane	UN 1510	I	B

POISONS, HAZARD CLASS 6.1

4921402	2-Chloroethanal	UN 2232	I	B
4921495	2-Methyl-2-Heptanethiol	UN 3023	I	B
4921741	3, 5-Dichloro-2, 4, 6-Trifluoropyridine	NA 9264	I	B
4921401	Acetone Cyanohydrin, Stabilized	UN 1541	I	B
4927007	Acrolein, Stabilized	UN 1092	I	A
4921019	Allyl Alcohol	UN 1098	I	B
4923113	Allyl Chloroformate	UN 1722	I	B
4921004	Allylamine	UN 2334	I	B
4923209	Arsenic Trichloride	UN 1560	I	B
4921727	Bromoacetone	UN 1569	II	B
4921558	Chloroacetone, Stabilized	UN 1695	I	B
4921009	Chloroacetonitrile	UN 2668	II	B
4923117	Chloroacetyl Chloride	UN 1752	I	B
4921414	Chloropicrin	UN 1580	I	B
4921746	Chloropivaloyl Chloride	NA 9263	I	B
4921248	Crotonaldehyde, Stabilized	UN 1143	I	B
4921010	Cyclohexyl Isocyanate	UN 2488	I	B
4921254	Diketene, Stabilized	UN 2521	I	B
4921405	Dimethyl Sulfate	UN 1595	I	B
4921251	Dimethylhydrazine, Symmetrical	UN 2382	I	B
4921202	Dimethylhydrazine, Unsymmetrical	UN 1163	I	B

Safety and Operations

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HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4921020	Ethyl Chloroformate	UN 1182	I	B
4921745	Ethyl Phosphonothioic Dichloride, Anhydrous	NA 2927	I	B
4921742	Ethyl Phosphonous Dichloride, Anhydrous pyrophoric liquid	NA 2845	I	B
4921744	Ethyl Phosphorodichloridate	NA 2927	I	B
4921404	Ethylidichloroarsine	UN 1892	I	B
4921420	Ethylene Chlorohydrin	UN 1135	I	B
4921497	Ethylene Dibromide	UN 1605	I	B
4927006	Ethyleneimine, Stabilized	UN 1185	I	A
4921722	Hexachlorocyclopentadiene	UN 2646	I	B
4921028	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions	UN 1613	I	B
4921239	Hydrogen Cyanide, solution in alcohol	UN 3294	I	B
4927014	Hydrogen Cyanide, stabilized	UN 1051	I	A
4927004	Iron Pentacarbonyl	UN 1994	I	A
4921211	Isobutyl Chloroformate	NA 2742	I	B
4921252	Isopropyl Chloroformate	UN 2407	I	B
4921245	Methanesulfonyl Chloride	UN 3246	I	B
4921438	Methyl Bromide and Ethylene dibromide mixtures, liquid	UN 1647	I	B
4927008	Methyl Chloroformate	UN 1238	I	A
4927012	Methyl Chloromethyl Ether	UN 1239	I	A
4921304	Methyl Iodide	UN 2644	I	B
4927009	Methyl Isocyanate	UN 2480	I	A
4921487	Methyl Isothiocyanate	UN 2477	I	B
4921255	Methyl Orthosilicate	UN 2606	I	B
4921695	Methyl Phosphonic Dichloride	NA 9206	I	B
4921008	Methyl Phosphonous Dichloride, pyrophoric liquid	NA 2845	I	B
4927022	Methyl Vinyl Ketone, Stabilized	UN 1251	I	A
4921275	Methylidichloroarsine	NA 1556	I	B
4927011	Methylhydrazine	UN 1244	I	A
4921730	n-Butyl Chloroformate	UN 2743	I	B
4927027	n-Butyl Isocyanate	UN 2485	I	B
4927010	Nickel Carbonyl	UN 1259	I	A
4921756	n-Propyl Chloroformate	UN 2740	I	B
4927025	n-Propyl Isocyanate	UN 2482	I	A
4921473	Perchloromethyl Mercaptan	UN 1670	I	B
4921216	Phenyl Isocyanate	UN 2487	I	B
4921413	Phenyl Mercaptan	UN 2337	I	B
4921587	Phenylcarbylamine Chloride	UN 1672	I	B
4921016	Phosphorus Trichloride	UN 1809	I	B
4921207	sec-Butyl Chloroformate	NA 2742	I	B
4927026	tert-Butyl Isocyanate	UN 2484	I	A
4923298	Thiophosgene	UN 2474	II	B
4921024	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921287	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921288	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4927028	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3389	I	A
4921003	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3384	I	B
4927019	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3383	I	A
4921000	Toxic by Inhalation liquid, n.o.s.	UN 3382	I	B
4927018	Toxic by Inhalation liquid, n.o.s.	UN 3381	I	A
4921023	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3388	I	B
4927024	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3387	I	A
4921006	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3386	I	B
4927023	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3385	I	A
4921213	Trimethoxysilane	NA 9269	I	B
4921063	Trimethylacetyl Chloride	UN 2438	I	B
4821019	Waste Allyl Alcohol	UN 1098	I	B
4821722	Waste Hexachlorocyclopentadiene	UN 2646	I	B
4821261	Waste Toxic Liquid, corrosive, inorganic, n.o.s.	UN 3289	I	B
CORROSIVES, HAZARD CLASS 8				
4932010	Boron Tribromide	UN 2692	I	B
4936110	Bromine or Bromine Solutions	UN 1744	I	A
4936106	Bromine Solutions	UN 1744	I	B
4930204	Chlorosulfonic Acid	UN 1754	I	B
4933327	Ethyl Chlorothioformate	UN 2826	II	B
4930024	Hydrogen Fluoride, Anhydrous	UN 1052	I	C
4931201	Nitric Acid, red fuming	UN 2032	I	B
4932352	Phosphorus Oxychloride	UN 1810	II	B
4930050	Sulfur Trioxide, Stabilized	UN 1829	I	B
4930030	Sulfuric acid, fuming	UN 1831	I	B
4930260	Sulfuryl Chloride	UN 1834	I	A
4932385	Titanium Tetrachloride	UN 1838	II	B
4935231	Trichloroacetyl Chloride	UN 2442	II	B
4830030	Waste Sulfuric acid, fuming	UN 1831	I	B

Appendix B:
List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(Hazard Zone A, B, C, or D)
Sorted by Hazmat Response Code #
September 18, 2007

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4821019	Waste Allyl Alcohol	UN 1098	I	B
4821261	Waste Toxic Liquid, corrosive, inorganic, n.o.s.	UN 3289	I	B
4821722	Waste Hexachlorocyclopentadiene	UN 2646	I	B
4830030	Waste Sulfuric acid, fuming	UN 1831	I	B
4904209	Ammonia, Anhydrous	UN 1005		
4904210	Ammonia, Anhydrous	UN 1005		
4904211	Ammonia, Solution	UN 3318		
4904879	Ammonia, Anhydrous	UN 1005		
4907409	Isobutyl Isocyanate	UN 2486	I	A
4907434	Ethyl Isocyanate	UN 2481	I	A
4909306	Isopropyl Isocyanate	UN 2483	I	A
4909307	Methoxymethyl Isocyanate	UN 2605	I	A
4910370	Methacrylonitrile, Stabilized	UN 3079	I	B
4916138	Pentaborane	UN 1380	I	A
4918180	Tetranitromethane	UN 1510	I	B
4918505	Bromine Pentafluoride	UN 1745	I	A
4918507	Bromine Trifluoride	UN 1746	I	B
4920101	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		A
4920102	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		A
4920103	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		A
4920104	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		A
4920105	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		A
4920106	Selenium Hexafluoride	UN 2194		A
4920107	Diborane	UN 1911		A
4920108	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		A
4920110	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		A
4920111	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		A
4920112	Nitric Oxide, Compressed	UN 1660		A
4920113	Nitric oxide and nitrogen dioxide mixtures or Nitric oxide and dinitrogen tetroxide mixtures	UN 1975		A
4920115	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920116	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		A
4920117	Compressed gas, toxic, oxidizing, n.o.s.	UN3306		C
4920118	Compressed gas, toxic, oxidizing, n.o.s.	UN3306		D
4920122	Hydrogen Selenide, anhydrous	UN 2202		A
4920135	Arsine	UN 2188		A
4920160	Phosphine	UN 2199		A
4920164	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		A
4920165	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		A

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920167	Stibine	UN 2676		A
4920173	Oxygen Difluoride, Compressed	UN 2190		A
4920174	Dinitrogen Tetroxide	UN 1067		A
4920175	Nitrogen Trioxide	UN 2421		A
4920178	Cyanogen Chloride, Stabilized	UN 1589		A
4920180	Fluorine, Compressed	UN 1045		A
4920181	Compressed Gas, toxic, n.o.s.	UN 1955		A
4920183	Phosphorus Pentafluoride	UN 2198		B
4920184	Phosgene	UN 1076		A
4920187	Sulfur Tetrafluoride	UN 2418		A
4920188	Tellurium Hexafluoride	UN 2195		A
4920189	Chlorine Pentafluoride	UN 2548		A
4920195	Liquefied gas, toxic, n.o.s.	UN 3162		A
4920196	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920300	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920301	Compressed Gas, toxic, corrosive, n.o.s.	UN3304		D
4920302	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		B
4920303	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		B
4920304	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		C
4920305	Compressed Gas, toxic, flammable, corrosive, n.o.s.	UN 3305		D
4920306	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		B
4920307	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		C
4920308	Compressed Gas, toxic, oxidizing, corrosive, n.o.s.	UN 3306		D
4920309	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		C
4920310	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		D
4920311	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		B
4920312	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		B
4920313	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		C
4920314	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		B
4920315	Liquefied gas, toxic, corrosive, n.o.s.	UN 3308		D
4920316	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		C
4920317	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		B
4920318	Liquefied gas, toxic, flammable, corrosive, n.o.s.	UN 3309		D
4920319	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		C
4920320	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		C
4920321	Liquefied gas, toxic, oxidizing, n.o.s.	UN 3307		D
4920322	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		C
4920323	Insecticide gases, toxic, flammable, n.o.s.	UN 3355		D
4920324	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		B
4920325	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	UN 3310		D
4920331	Compressed Gas, toxic, corrosive, n.o.s.	UN 3304		C
4920337	Compressed gas, toxic, oxidizing, n.o.s.	UN 3303		B
4920342	Ethylene Oxide and Carbon Dioxide mixture	UN 3300		D
4920343	Carbon Monoxide and Hydrogen mixture, Compressed	UN 2600		
4920344	Oil Gas, Compressed	UN 1071		

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920346	Trifluorochloroethylene, Stabilized	UN 1082		C
4920347	Trifluoroacetyl Chloride	UN 3057		B
4920348	Hydrogen Iodide, anhydrous	UN 2197		C
4920349	Boron Trichloride	UN 1741		C
4920351	Carbonyl Sulfide	UN 2204		C
4920352	Chlorine Trifluoride	UN 1749		B
4920353	Ethylene Oxide or Ethylene Oxide with Nitrogen	UN 1040		D
4920354	Germane	UN 2192		B
4920355	Methyl Mercaptan	UN 1064		C
4920356	Perchloryl Fluoride	UN 3083		B
4920357	Silicon Tetrafluoride	UN 1859		B
4920359	Ammonia, Anhydrous	UN 1005		D
4920360	Ammonia, Solution	UN 3318		D
4920368	Liquefied gas, toxic, n.o.s.	UN 3162		C
4920369	Liquefied gas, toxic, n.o.s.	UN 3162		D
4920371	Tungsten Hexafluoride	UN 2196		B
4920373	Compressed Gas, toxic, n.o.s.	UN 1955		D
4920375	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920378	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		C
4920379	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		D
4920380	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		C
4920381	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		D
4920382	Liquefied gas, toxic, flammable, n.o.s.	UN 3160		B
4920383	Liquefied gas, toxic, n.o.s.	UN 3162		
4920392	Chloropicrin and Methyl Chloride mixtures	UN 1582		B
4920394	Methylchlorosilane	UN 2534		B
4920395	Cyanogen	UN 1026		B
4920396	Compressed Gas, toxic, flammable, n.o.s.	UN 1953		B
4920398	Dichlorosilane	UN 2189		B
4920399	Carbon Monoxide, Compressed	UN 1016		D
4920502	Hydrogen Bromide, anhydrous	UN 1048		C
4920503	Hydrogen Chloride, anhydrous	UN 1050		C
4920504	Hydrogen Chloride, refrigerated liquid	UN 2186		C
4920505	Compressed Gas, toxic, n.o.s.	UN 1955		C
4920508	Sulfur Dioxide	UN 1079		C
4920509	Nitrosyl Chloride	UN 1069		C
4920510	Gas Identification set	NA 9035		
4920511	Carbon Monoxide, refrigerated liquid	NA 9202		D
4920513	Hydrogen Sulfide	UN 1053		B
4920515	Hexaethyl tetraphosphate and compressed gas mixtures	UN 1612		C
4920516	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920517	Compressed Gas, toxic, n.o.s.	UN 1955		
4920518	Methyl Bromide	UN 1062		C
4920522	Boron Trifluoride	UN 1008		B
4920523	Chlorine	UN 1017		B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4920525	Compressed Gas, toxic, n.o.s.	UN 1955		
4920526	Sulfuryl Fluoride	UN 2191		D
4920527	Coal Gas, Compressed	UN 1023		C
4920528	Hexafluoroacetone	UN 2420		B
4920530	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorus compound, mixed with compressed gas	NA 1955		C
4920531	Liquefied gas, toxic, n.o.s.	UN 3162		
4920534	Gas sample, non-pressurized, toxic, flammable, n.o.s.	UN 3168		
4920535	Parathion and Compressed gas mixture	NA 1967		C
4920536	Gas sample, non-pressurized, toxic, n.o.s.	UN 3169		
4920547	Chloropicrin and Methyl Bromide mixtures	UN 1581		B
4920550	Insecticide gases, toxic, n.o.s.	UN 1967		C
4920556	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920559	Carbonyl Fluoride	UN 2417		B
4920570	Compressed Gas, toxic, n.o.s.	UN 1955		B
4920571	Liquefied gas, toxic, n.o.s.	UN 3162		B
4920715	Bromine Chloride	UN 2901		B
4921000	Toxic by Inhalation liquid, n.o.s.	UN 3382	I	B
4921003	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3384	I	B
4921004	Allylamine	UN 2334	I	B
4921006	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3386	I	B
4921008	Methyl Phosphonous Dichloride, pyrophoric liquid	NA 2845	I	B
4921009	Chloroacetonitrile	UN 2668	II	B
4921010	Cyclohexyl Isocyanate	UN 2488	I	B
4921016	Phosphorus Trichloride	UN 1809	I	B
4921019	Allyl Alcohol	UN 1098	I	B
4921020	Ethyl Chloroformate	UN 1182	I	B
4921023	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3388	I	B
4921024	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921028	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions	UN 1613	I	B
4921063	Trimethylacetyl Chloride	UN 2438	I	B
4921202	Dimethylhydrazine, Unsymmetrical	UN 1163	I	B
4921207	sec-Butyl Chloroformate	NA 2742	I	B
4921211	Isobutyl Chloroformate	NA 2742	I	B
4921213	Trimethoxysilane	NA 9269	I	B
4921216	Phenyl Isocyanate	UN 2487	I	B
4921239	Hydrogen Cyanide, solution in alcohol	UN 3294	I	B
4921245	Methanesulfonyl Chloride	UN 3246	I	B
4921248	Crotonaldehyde, Stabilized	UN 1143	I	B
4921251	Dimethylhydrazine, Symmetrical	UN 2382	I	B
4921252	Isopropyl Chloroformate	UN 2407	I	B
4921254	Diketene, Stabilized	UN 2521	I	B
4921255	Methyl Orthosilicate	UN 2606	I	B

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4921275	Methyldichloroarsine	NA 1556	I	B
4921287	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921288	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3390	I	B
4921304	Methyl Iodide	UN 2644	I	B
4921401	Acetone Cyanohydrin, Stabilized	UN 1541	I	B
4921402	2-Chloroethanal	UN 2232	I	B
4921404	Ethyldichloroarsine	UN 1892	I	B
4921405	Dimethyl Sulfate	UN 1595	I	B
4921413	Phenyl Mercaptan	UN 2337	I	B
4921414	Chloropicrin	UN 1580	I	B
4921420	Ethylene Chlorohydrin	UN 1135	I	B
4921438	Methyl Bromide and Ethylene dibromide mixtures, liquid	UN 1647	I	B
4921473	Perchloromethyl Mercaptan	UN 1670	I	B
4921487	Methyl Isothiocyanate	UN 2477	I	B
4921495	2-Methyl-2-Heptanethiol	UN 3023	I	B
4921497	Ethylene Dibromide	UN 1605	I	B
4921558	Chloroacetone, Stabilized	UN 1695	I	B
4921587	Phenylcarbylamine Chloride	UN 1672	I	B
4921695	Methyl Phosphonic Dichloride	NA 9206	I	B
4921722	Hexachlorocyclopentadiene	UN 2646	I	B
4921727	Bromoacetone	UN 1569	II	B
4921730	n-Butyl Chloroformate	UN 2743	I	B
4921741	3, 5-Dichloro-2, 4, 6-Trifluoropyridine	NA 9264	I	B
4921742	Ethyl Phosphonous Dichloride, Anhydrous pyrophoric liquid	NA 2845	I	B
4921744	Ethyl Phosphorodichloridate	NA 2927	I	B
4921745	Ethyl Phosphonothioic Dichloride, Anhydrous	NA 2927	I	B
4921746	Chloropivaloyl Chloride	NA 9263	I	B
4921756	n-Propyl Chloroformate	UN 2740	I	B
4923113	Allyl Chloroformate	UN 1722	I	B
4923117	Chloroacetyl Chloride	UN 1752	I	B
4923209	Arsenic Trichloride	UN 1560	I	B
4923298	Thiophosgene	UN 2474	II	B
4927004	Iron Pentacarbonyl	UN 1994	I	A
4927006	Ethyleneimine, Stabilized	UN 1185	I	A
4927007	Acrolein, Stabilized	UN 1092	I	A
4927008	Methyl Chloroformate	UN 1238	I	A
4927009	Methyl Isocyanate	UN 2480	I	A
4927010	Nickel Carbonyl	UN 1259	I	A
4927011	Methylhydrazine	UN 1244	I	A
4927012	Methyl Chloromethyl Ether	UN 1239	I	A
4927014	Hydrogen Cyanide, stabilized	UN 1051	I	A
4927018	Toxic by Inhalation liquid, n.o.s.	UN 3381	I	A
4927019	Toxic by Inhalation liquid, flammable, n.o.s.	UN 3383	I	A
4927022	Methyl Vinyl Ketone, Stabilized	UN 1251	I	A
4927023	Toxic by Inhalation liquid, water-reactive, n.o.s.	UN 3385	I	A

HMRC	Proper Shipping Name	UN/NA#	Packing Group	Hazard Zone
4927024	Toxic by Inhalation liquid, oxidizing, n.o.s.	UN 3387	I	A
4927025	n-Propyl Isocyanate	UN 2482	I	A
4927026	tert-Butyl Isocyanate	UN 2484	I	A
4927027	n-Butyl Isocyanate	UN 2485	I	B
4927028	Toxic by Inhalation liquid, corrosive, n.o.s.	UN 3389	I	A
4930024	Hydrogen Fluoride, Anhydrous	UN 1052	I	C
4930030	Sulfuric acid, fuming	UN 1831	I	B
4930050	Sulfur Trioxide, Stabilized	UN 1829	I	B
4930204	Chlorosulfonic Acid	UN 1754	I	B
4930260	Sulfuryl Chloride	UN 1834	I	A
4931201	Nitric Acid, red fuming	UN 2032	I	B
4932010	Boron Tribromide	UN 2692	I	B
4932352	Phosphorus Oxychloride	UN 1810	II	B
4932385	Titanium Tetrachloride	UN 1838	II	B
4933327	Ethyl Chlorothioformate	UN 2826	II	B
4935231	Trichloroacetyl Chloride	UN 2442	II	B
4936106	Bromine Solutions	UN 1744	I	B
4936110	Bromine or Bromine Solutions	UN 1744	I	A

Appendix C
Environmentally Sensitive Chemicals
(September 18, 2007)

Proper Shipping Name	Hazmat STCC
Allyl Chloride	4907412
Carbon Tetrachloride	4821831 / 4860106 / 4921830 / 4921831 / 4960115
Chlorobenzene	4909153
Chloroform	4921767/4921769
o-Dichlorobenzene	4915132 / 4925203
Dichloropropane (Propylene dichloride)	4909265
Dichloropropane/Dichloropropene mixture	4910234
Dichloropropene	4909255
Ethyl Chloride	4905712 / 4908129 / 4908162 /
Ethylene Dibromide (already listed as PIH)	
Ethylene Dibromide and Methyl Bromide Mixtures (already listed as PIH)	
Ethylene Dichloride	4909166 / 4912081/ 4908129 / 4910437 / 4913242 / 4913295 / 4921030
Epichlorohydrin	4921005
Methyl Chloroform (1,1,1 Trichloroethane)	4825182 / 4925182 / 4910463 / 4010475 / / 4925310 / 4960205
Methylene Chloride (Dichloromethane)	4925131 / 4905764
Methylene chloride/chloroform mixture	4960150
Perchloroethylene (Tetrachloroethylene)	4825202 / 4910134 / / 4925202
Perchloroethylene/Trichloroethylene mixture	4940373
Trichloroethylene	4925181

Appendix D
Time Sensitive Materials
July 17, 2006

Proper Shipping Name	Haz Mat STCC
20 Day	
Ethylene, refrigerated liquid	4905735
Hydrogen, refrigerated liquid	4905745
Vinyl Fluoride, stabilized	4905793
Chloroprene, stabilized	4907223
Flammable Liquid, n.o.s. (Methyl Methacrylate Monomer, uninhibited)	4907255
Hydrogen chloride, refrigerated liquid	4920504
30 day	
Styrene monomer, stabilized	4907265
Flammable Liquid, n.o.s. (Recycled styrene)	4910159
Styrene monomer, stabilized	4907235

Appendix E
Spent Nuclear Fuel (SNF) and High Level Radioactive Waste (HLRW)
September 18, 2007

HMRC	Proper Shipping Description
4929142	Radioactive Material, Type B(U) Package, Fissile
4929143	Radioactive Material, Type B(M) Package, Fissile
4929144	Radioactive Material, Transported Under Special Arrangement, Fissile

**Appendix F to
Circular OT-55**

Sample Request for Hazardous Materials Commodity Flow Information

March 1, 2005

[Company LOGO]

Request for Hazardous Materials COMMODITY FLOW INFORMATION

Organization Requesting Information : _____

Contact Person: _____

Phone Number: _____

Email Address: _____

Mailing Address: _____
(Street Address)

(City, State, Zip)

Geographical Description of Area for study: _____

Preferred method to receive report: Email U.S. Mail (Mark One)

By signing below I acknowledge and agree to the terms set forth by **[RAILROAD NAME]** for use and dissemination of the **[RAILROAD'S]** Hazardous Materials Commodity Flow Information . **[RAILROAD'S NAME]** considers this information to be restricted information of a security sensitive nature. I thus affirm and agree that the information provided by **[RAILROAD NAME]** in this report will be used solely for and by bona fide emergency planning and response organizations for the expressed purpose of emergency and contingency planning. This information will not be distributed publicly in whole or in part without the expressed written permission of **[RAILROAD NAME]**.

(Signature of person requesting commodity flow information)

Return Completed Form to: [INSERT RAILROAD NAME AND ADDRESS]

For [RAILROAD] Use Only

[PERSON RESPONSIBLE FOR APPROVAL]: ___ Yes ___ NO Date: _____

Hazardous Materials Service Support:

Date Request Received: _____

Time Period Covered: _____

Date Report Sent: _____

Report sent via: Email U.S. Mail