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**Toxic Inhalation/Poison Hazard Material (TIH/PIH) Procedure – SECTION V
(ORIGINAL)**

TIH/PIH PROCEDURE

Item 1000 – Procedure on Delivery and Placement of Cars:

Customer shall be prepared to receive carloads of TIH/PIH commodities immediately upon notification of availability at destination by carrier railroad. There will no free time granted to customer once notification takes place. Charges will begin at 12:01AM the morning after customer tender/notification or the first day of deliverable service, whichever occurs first.

If a receiver/customer or receiving location is unable to accept a TIH/PIH commodity carload when it is first tendered/notified and available for delivery, and RailAmerica must then hold the car(s) in its rail facilities, a charge of \$1,000 per car, per day or portion thereof will be assessed until the car(s) are placed at its billed destination.

Item 1020 is a list of STCC codes that fall under the category of TIH/PIH and will be applicable in assessment of the daily charge and handling.

Item 1003 – Procedure on Unsafe or Improperly Loaded Cars:

When a car is deemed unsafe based on the criteria bullet points below, a penalty of \$10,000 may be assessed to the Shipper:

- A car is overloaded, imbalanced or has a shifted load
- A car is spilling, leaking, or dusting
- A car containing TIH/PIH commodities or residue is identified moving on the Subscribing Carrier's line for which shipping instructions were not regulatory compliant.

Item 1005 – Procedure on any Major Adjustment for TIH/PIH Cars

When Supplier Carrier provides any of the following tasks to a TIH/PIH car, a charge equating to actual cost plus 25% (minimum \$1,000) will be assessed to the party requesting or requiring these services:

- A car needs readjusting, reducing, loading, or unloading of a shipment.
- Repair or cleaning equipment, or clean-up of leaked/spilled materials
- Applying sprays or suppressants to the shipment or contents



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Item 1007 – Procedure on Unsafe Condition at Customer Facility

Where at Supplier Carrier's sole discretion, safe railway operations are not possible because of an extreme condition such as but not limited to the conditions below, train service will be suspended until condition is rectified to the satisfaction of Supplier Carrier's safety/environmental staff.

Condition or practice likely to cause permanent disability, loss of life or body part and/or extensive loss of structure, equipment or material, or repeated/or multiple unresolved conditions or practices that may have a safe work-around.



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**Item 1020: List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D)**

	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
2819815	4904209	Ammonia, Anhydrous UN 1005
2819815	4904210	Ammonia, Anhydrous UN 1005
2819815	4904211	Ammonia, Solution UN 3318
3533945	4904879	Ammonia, Anhydrous UN 1005
2899991	4907409	Isobutyl Isocyanate UN 2486 I A
2899991	4907434	Ethyl Isocyanate UN 2481 I A
2899991	4909306	Isopropyl Isocyanate UN 2483 I A
2899991	4909307	Methoxymethyl Isocyanate UN 2605 I A
2899991	4910370	Methacrylonitrile, Stabilized UN 3079 I B
2899991	4916138	Pentaborane UN 1380 I A
2899991	4918180	Tetranitromethane UN 1510 I B
2899991	4918505	Bromine Pentafluoride UN 1745 I A
2899991	4918507	Bromine Trifluoride UN 1746 I B
2818890	4920101	Compressed Gas, toxic, corrosive, n.o.s. UN 3304 A
2818890	4920102	Compressed Gas, toxic, flammable, corrosive, n.o.s. UN 3305 A
2818890	4920103	Compressed Gas, toxic, oxidizing, corrosive, n.o.s. UN 3306 A
2818890	4920104	Compressed gas, toxic, oxidizing, n.o.s. UN 3303 A
2818890	4920105	Liquefied gas, toxic, corrosive, n.o.s. UN 3308 A
2818890	4920106	Selenium Hexafluoride UN 2194 A
2818890	4920107	Diborane UN 1911 A
2818890	4920108	Liquefied gas, toxic, flammable, corrosive, n.o.s. UN 3309 A
2818890	4920110	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. UN 3310 A
2818890	4920111	Liquefied gas, toxic, oxidizing, n.o.s. UN 3307 A
2813975	4920112	Nitric Oxide, Compressed UN 1660 A



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2818890	4920113	Nitric oxide and nitrogen dioxide mixtures or Nitric oxide and dinitrogen tetroxide mixtures UN 1975 A
2818890	4920115	Insecticide gases, toxic, flammable, n.o.s. UN 3355 A
2818890	4920116	Insecticide gases, toxic, flammable, n.o.s. UN 3355 A
2818890	4920122	Hydrogen Selenide, anhydrous UN 2202 A
2818890	4920135	Arsine UN 2188 A
2818890	4920160	Phosphine UN 2199 A
2818890	4920164	Liquefied gas, toxic, flammable, n.o.s. UN 3160 A
2818890	4920165	Compressed Gas, toxic, flammable, n.o.s. UN 1953 A
2818890	4920167	Stibine UN 2676 A
2818890	4920173	Oxygen Difluoride, Compressed UN 2190 A
2818890	4920174	Dinitrogen Tetroxide UN 1067 A
2818890	4920175	Nitrogen Trioxide UN 2421 A
2818890	4920178	Cyanogen Chloride, Stabilized UN 1589 A
2818890	4920180	Fluorine, Compressed UN 1045 A
2818890	4920181	Compressed Gas, toxic, n.o.s. UN 1955 A
2818890	4920183	Phosphorus Pentafluoride UN 2198 B
2818820	4920184	Phosgene UN 1076 A
2818890	4920187	Sulfur Tetrafluoride UN 2418 A
2818890	4920188	Tellurium Hexafluoride UN 2195 A
2818890	4920189	Chlorine Pentafluoride UN 2548 A
2818890	4920195	Liquefied gas, toxic, n.o.s. UN 3162 A
2818890	4920196	Ethylene Oxide and Carbon Dioxide mixture UN 3300 D
2818890	4920300	Compressed Gas, toxic, corrosive, n.o.s. UN 3304 C
2818890	4920301	Compressed Gas, toxic, corrosive, n.o.s. UN3304 D
2818890	4920302	Insecticide gases, toxic, flammable, n.o.s. UN 3355 B
2818890	4920303	Compressed Gas, toxic, flammable, corrosive, n.o.s. UN 3305 B
2818890	4920304	Compressed Gas, toxic, flammable, corrosive, n.o.s. UN 3305 C
2818890	4920305	Compressed Gas, toxic, flammable, corrosive, n.o.s. UN 3305 D
2818890	4920306	Compressed Gas, toxic, oxidizing, corrosive, n.o.s. UN 3306 B
2818890	4920307	Compressed Gas, toxic, oxidizing, corrosive, n.o.s. UN 3306 C
2818890	4920308	Compressed Gas, toxic, oxidizing, corrosive, n.o.s. UN 3306 D



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2818890	4920309	Compressed gas, toxic, oxidizing, n.o.s. UN 3303 C
2818890	4920310	Compressed gas, toxic, oxidizing, n.o.s. UN 3303 D
2818890	4920311	Liquefied gas, toxic, corrosive, n.o.s. UN 3308 B
2818890	4920312	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. UN 3310 B
2818890	4920313	Liquefied gas, toxic, corrosive, n.o.s. UN 3308 C
2818890	4920314	Liquefied gas, toxic, flammable, corrosive, n.o.s. UN 3309 B
2818890	4920315	Liquefied gas, toxic, corrosive, n.o.s. UN 3308 D
2818890	4920316	Liquefied gas, toxic, flammable, corrosive, n.o.s. UN 3309 C
2818890	4920317	Liquefied gas, toxic, oxidizing, n.o.s. UN 3307 B
2818890	4920318	Liquefied gas, toxic, flammable, corrosive, n.o.s. UN 3309 D
2818890	4920319	Liquefied gas, toxic, oxidizing, n.o.s. UN 3307 C
2818890	4920320	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. UN 3310 C
2818890	4920321	Liquefied gas, toxic, oxidizing, n.o.s. UN 3307 D
2818890	4920322	Insecticide gases, toxic, flammable, n.o.s. UN 3355 C
2818890	4920323	Insecticide gases, toxic, flammable, n.o.s. UN 3355 D
2818890	4920324	Compressed Gas, toxic, corrosive, n.o.s. UN 3304 B
2818890	4920325	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. UN 3310 D
2818890	4920331	Compressed Gas, toxic, corrosive, n.o.s. UN 3304 C
2818890	4920337	Compressed gas, toxic, oxidizing, n.o.s. UN 3303 B
2818890	4920342	Ethylene Oxide and Carbon Dioxide mixture UN 3300 D
2818890	4920343	Carbon Monoxide and Hydrogen mixture, Compressed UN 2600
2818890	4920344	Oil Gas, Compressed UN 1071
2813964	4920346	Trifluorochloroethylene, Stabilized UN 1082 C
2818890	4920347	Trifluoroacetyl Chloride UN 3057 B
2818890	4920348	Hydrogen Iodide, anhydrous UN 2197 C
2899991	4920349	Boron Trichloride UN 1741 C
2818890	4920351	Carbonyl Sulfide UN 2204 C
2899991	4920352	Chlorine Trifluoride UN 1749 B
2818239	4920353	Ethylene Oxide or Ethylene Oxide with Nitrogen UN 1040 D
2818890	4920354	Germane UN 2192 B



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2813950	4920355	Methyl Mercaptan UN 1064 C
2818890	4920356	Perchloryl Fluoride UN 3083 B
2818890	4920357	Silicon Tetrafluoride UN 1859 B
2819815	4920359	Ammonia, Anhydrous UN 1005 D
2819815	4920360	Ammonia, Solution UN 3318 D
2818890	4920368	Liquefied gas, toxic, n.o.s. UN 3162 C
2818890	4920369	Liquefied gas, toxic, n.o.s. UN 3162 D
2818890	4920371	Tungsten Hexafluoride UN 2196 B
2818890	4920373	Compressed Gas, toxic, n.o.s. UN 1955 D
2818890	4920375	Compressed Gas, toxic, n.o.s. UN 1955 C
2818890	4920378	Compressed Gas, toxic, flammable, n.o.s. UN 1953 C
2818890	4920379	Compressed Gas, toxic, flammable, n.o.s. UN 1953 D
2818890	4920380	Liquefied gas, toxic, flammable, n.o.s. UN 3160 C
2818890	4920381	Liquefied gas, toxic, flammable, n.o.s. UN 3160 D
2818890	4920382	Liquefied gas, toxic, flammable, n.o.s. UN 3160 B
2879951	4920392	Chloropicrin and Methyl Chloride mixtures UN 1582 B
2899991	4920394	Methylchlorosilane UN 2534 B
2818890	4920395	Cyanogen UN 1026 B
2818890	4920396	Compressed Gas, toxic, flammable, n.o.s. UN 1953 B
2818890	4920398	Dichlorosilane UN 2189 B
2813932	4920399	Carbon Monoxide, Compressed UN 1016 D
2813920	4920502	Hydrogen Bromide, anhydrous UN 1048 C
2813922	4920503	Hydrogen Chloride, anhydrous UN 1050 C
2813922	4920504	Hydrogen Chloride, refrigerated liquid UN 2186 C
2818890	4920505	Compressed Gas, toxic, n.o.s. UN 1955 C
2819997	4920508	Sulfur Dioxide UN 1079 C
2818890	4920509	Nitrosyl Chloride UN 1069 C
2818890	4920510	Gas Identification set NA 9035
2813932	4920511	Carbon Monoxide, refrigerated liquid NA 9202 D
2813946	4920513	Hydrogen Sulfide UN 1053 B



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2818890	4920515	Hexaethyl tetraphosphate and compressed gas mixtures UN 1612 C
2813914	4920516	Chloropicrin and Methyl Bromide mixtures UN 1581 B
2813914	4920518	Methyl Bromide UN 1062 C
2819972	4920522	Boron Trifluoride UN 1008 B
2812815	4920523	Chlorine UN 1017 B
2818890	4920526	Sulfuryl Fluoride UN 2191 D
2912130	4920527	Coal Gas, Compressed UN 1023 C
2818890	4920528	Hexafluoroacetone UN 2420 B
2818890	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
2818890	4920534	Gas sample, non-pressurized, toxic, flammable, n.o.s. UN 3168
2818890	4920535	Parathion and Compressed gas mixture NA 1967 C
2818890	4920536	Gas sample, non-pressurized, toxic, n.o.s. UN 3169
2818890	4920547	Chloropicrin and Methyl Bromide mixtures UN 1581 B
2879936	4920550	Insecticide gases, toxic, n.o.s. UN 1967 C
2899991	4920556	Compressed Gas, toxic, n.o.s. UN 1955 B
2818890	4920559	Carbonyl Fluoride UN 2417 B
2818890	4920570	Compressed Gas, toxic, n.o.s. UN 1955 B
2818890	4920571	Liquefied gas, toxic, n.o.s. UN 3162 B
2818008	4920715	Bromine Chloride UN 2901 B
2899991	4921000	Toxic by Inhalation liquid, n.o.s. UN 3382 I B
2899991	4921003	Toxic by Inhalation liquid, flammable, n.o.s. UN 3384 I B
2818009	4921004	Allylamine UN 2334 I B
2899991	4921006	Toxic by Inhalation liquid, water-reactive, n.o.s. UN 3386 I B
2899991	4921008	Methyl Phosphonous Dichloride, pyrophoric liquid NA 2845 I B
2899991	4921009	Chloroacetonitrile UN 2668 II B
2899991	4921010	Cyclohexyl Isocyanate UN 2488 I B
2819415	4921016	Phosphorus Trichloride UN 1809 I B
2818410	4921019	Allyl Alcohol UN 1098 I B
2818037	4921020	Ethyl Chloroformate UN 1182 I B



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2899991	4921023	Toxic by Inhalation liquid, oxidizing, n.o.s. UN 3388 I B
2899991	4921024	Toxic by Inhalation liquid, corrosive, n.o.s. UN 3390 I B
2819434	4921028	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions UN 1613 I B
2899991	4921063	Trimethylacetyl Chloride UN 2438 I B
2818023	4921202	Dimethylhydrazine, Unsymmetrical UN 1163 I B
2899991	4921207	sec-Butyl Chloroformate NA 2742 I B
2899991	4921211	Isobutyl Chloroformate NA 2742 I B
2899991	4921213	Trimethoxysilane NA 9269 I B
2815151	4921216	Phenyl Isocyanate UN 2487 I B
2819434	4921239	Hydrogen Cyanide, solution in alcohol UN 3294 I B
2899991	4921245	Methanesulfonyl Chloride UN 3246 I B
2818123	4921248	Crotonaldehyde, Stabilized UN 1143 I B
2818023	4921251	Dimethylhydrazine, Symmetrical UN 2382 I B
2899991	4921252	Isopropyl Chloroformate UN 2407 I B
2899991	4921254	Diketene, Stabilized UN 2521 I B
2899991	4921255	Methyl Orthosilicate UN 2606 I B
2899991	4921275	Methyldichloroarsine NA 1556 I B
2819962	4921287	Toxic by Inhalation liquid, corrosive, n.o.s. UN 3390 I B
2819962	4921288	Toxic by Inhalation liquid, corrosive, n.o.s. UN 3390 I B
2899991	4921304	Methyl Iodide UN 2644 I B
2818915	4921401	Acetone Cyanohydrin, Stabilized UN 1541 I B
2899991	4921402	2-Chloroethanal UN 2232 I B
2899991	4921404	Ethyldichloroarsine UN 1892 I B
2818131	4921405	Dimethyl Sulfate UN 1595 I B
2818930	4921413	Phenyl Mercaptan UN 2337 I B
2818830	4921414	Chloropicrin UN 1580 I B



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2818138	4921420	Ethylene Chlorohydrin UN 1135 I B
2879934	4921438	Methyl Bromide and Ethylene dibromide mixtures, liquid UN 1647 I B
2899991	4921473	Perchloromethyl Mercaptan UN 1670 I B
2818063	4921487	Methyl Isothiocyanate UN 2477 I B
2899991	4921495	2-Methyl-2-Heptanethiol UN 3023 I B
2818184	4921497	Ethylene Dibromide UN 1605 I B
2818104	4921558	Chloroacetone, Stabilized UN 1695 I B
2899991	4921587	Phenylcarbylamine Chloride UN 1672 I B
2899991	4921695	Methyl Phosphonic Dichloride NA 9206 I B
2818331	4921722	Hexachlorocyclopentadiene UN 2646 I B
2818168	4921727	Bromoacetone UN 1569 II B
2899991	4921730	n-Butyl Chloroformate UN 2743 I B
2899991	4921741	3, 5-Dichloro-2, 4, 6-Trifluoropyridine NA 9264 I B
2899991	4921742	Ethyl Phosphonous Dichloride, Anhydrous pyrophoric liquid NA 2845 I B
2899991	4921744	Ethyl Phosphorodichloridate NA 2927 I B
2899991	4921745	Ethyl Phosphonothioic Dichloride, Anhydrous NA 2927 I B
2899991	4921746	Chloropivaloyl Chloride NA 9263 I B
2899991	4921756	n-Propyl Chloroformate UN 2740 I B
2899991	4923113	Allyl Chloroformate UN 1722 I B
2815210	4923117	Chloroacetyl Chloride UN 1752 I B
2899991	4923209	Arsenic Trichloride UN 1560 I B
2899991	4923298	Thiophosgene UN 2474 II B
2899991	4927004	Iron Pentacarbonyl UN 1994 I A
2899991	4927006	Ethyleneimine, Stabilized UN 1185 I A
2818101	4927007	Acrolein, Stabilized UN 1092 I A
2818454	4927008	Methyl Chloroformate UN 1238 I A
2818288	4927009	Methyl Isocyanate UN 2480 I A
2819535	4927010	Nickel Carbonyl UN 1259 I A
2899991	4927011	Methylhydrazine UN 1244 I A
2899991	4927012	Methyl Chloromethyl Ether UN 1239 I A



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**List of Poison Inhalation Hazard (PIH) or Toxic Inhalation Hazard Chemicals (TIH)
(HazardZone A, B, C, or D) (Continued)**

2819434	4927014	Hydrogen Cyanide, stabilized UN 1051 I A
2899991	4927018	Toxic by Inhalation liquid, n.o.s. UN 3381 I A
2899991	4927019	Toxic by Inhalation liquid, flammable, n.o.s. UN 3383 I A
2818057	4927022	Methyl Vinyl Ketone, Stabilized UN 1251 I A
2899991	4927023	Toxic by Inhalation liquid, water-reactive, n.o.s. UN 3385 I A
2899991	4927024	Toxic by Inhalation liquid, oxidizing, n.o.s. UN 3387 I A
2899991	4927025	n-Propyl Isocyanate UN 2482 I A
2899991	4927026	tert-Butyl Isocyanate UN 2484 I A
2815207	4927027	n-Butyl Isocyanate UN 2485 I B
2899991	4927028	Toxic by Inhalation liquid, corrosive, n.o.s. UN 3389 I A
2899991	4927099	Toxic by Inhalation liquid, corrosive, n.o.s. UN 3390 I B
2819484	4930024	Hydrogen Fluoride, Anhydrous UN 1052 I C
2819340	4930030	Sulfuric acid, fuming UN 1831 I B
2819325	4930050	Sulfur Trioxide, Stabilized UN 1829 I B
2819422	4930204	Chlorosulfonic Acid UN 1754 I B
2819961	4930260	Sulfuryl Chloride UN 1834 I A
2819215	4931201	Nitric Acid, red fuming UN 2032 I B
2899991	4932010	Boron Tribromide UN 2692 I B
2819416	4932352	Phosphorus Oxychloride UN 1810 II B
2819971	4932385	Titanium Tetrachloride UN 1838 II B
2899991	4933327	Ethyl Chlorothioformate UN 2826 II B
2899991	4935231	Trichloroacetyl Chloride UN 2442 II B
2819919	4936106	Bromine Solutions UN 1744 I B
2819919	4936110	Bromine or Bromine Solutions UN 1744 I A
2819315	4936565	Sulfur Trioxide, Stabilized UN 1829 I B