

## **APPENDIX H**

### **COMMODITY FLOW SURVEY (CFS) SHIPPER GROUPS**

Appendix Table H1 lists the Bureau of Census establishment categories from which CFS shippers were sampled for survey purposes. This RSPA analysis and report captures the oil and gas extraction sector data through separate Department of Energy coverage of the petroleum products industry (relevant text and Tables B1-B6).

One important sector that has not been covered by the CFS and is briefly addressed in Appendix G of this report is the health care industry and the extent to which it generates medical wastes. The Census Bureau category that would otherwise cover the majority of these medical establishments is the “Most Retail & Services” sector listed in Table H1.

Routine operating activities of establishments in the *Construction* and *Transportation* sectors listed in Table H1 presumably also contribute to U.S. hazmat traffic flows. The CFS does not capture these establishments, however, and aside from the general discussion in Appendix G, “Alternative SIC Codes,” data from these groups are not otherwise treated in this report.

**Appendix Table H1: COMMODITY FLOW SURVEY SHIPPER GROUPS  
1977 v. 1993**

Shipper Groups (Establishments) *	1977		1993	
	Included	Excluded	Included	Excluded
Mining	x		x	
Manufacturing	x		x	
Wholesale	x		x	
Selected Retail	x		x	
Selected Service	x		x	
Auxiliary Establishments (e.g. warehouses)		x **	x	
Farms		x		x
Forestry		x		x
Fisheries		x		x
Oil & Gas Extraction		x		x
Governments		x		x
Construction		x		x
Transportation		x		x
Households		x		x
Foreign Establishments		x		x
Most Retail & Services		x		x

\* Hospitals and other health facilities, which constitute a high-profile presence as medical waste generators, were excluded from both surveys.

\*\* In the 1977 Commodity of Transportation Flow Survey, this establishment category was excluded. Because most petroleum products are shipped first from refineries and then reshipped from "regional terminals," or what would be categorized as warehouses, excluding this establishment group meant that Hazmat petroleum product shipments were greatly understated by the 1977 Survey.

SOURCE: 1993 Commodity Flow Survey, Bureau of The Census, page v.