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**Specification for
Waste Stream Classification
for the Demolition of
Deutsche Bank Building
130 Liberty Street
New York, New York**

Prepared by:

**RJ Lee Group, Inc.
350 Hochberg Road
Monroeville, PA 15146**

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1 OBJECTIVE

This specification is to provide mandatory requirements for waste classification of the components and contents of the building located at 130 Liberty Street, New York City, New York (the “Building”) and the disposal of the components and contents by the contractor (“Contractor”) retained to demolish the Building. This specification has been prepared for Deutsche Bank Trust Company Americas, the owner of the Building (the “Bank”). The Bank will retain an environmental consultant (the “Environmental Consultant”) to conduct additional classification studies, update this specification and building inventory sheets, and to perform on-site monitoring of handling and disposal activities described in this specification. The classification of Building components and contents is an ongoing effort and has been conducted in accordance to applicable city, state, and federal laws, rules and regulations and where appropriate scientifically justified analysis. This specification is intended as a working document to be used during ongoing operations at the Building and will be updated as appropriate. If applicable laws, rules or regulations or an appropriate governmental authority requires a more rigorous standard than is provided for in this specification, then such standard shall govern.

This specification provides:

- 1) The classification of the components and contents of the Building by major category;
- 2) The disposition criteria for each type of component or content; and
- 3) Designation of Bank approved waste site repository for components or contents in certain classifications.

2 BUILDING INVENTORY

The attached inventory spreadsheet (Attachment A) lists all known materials to be removed from the Building during waste removal and demolition. The spreadsheet provides an itemization of the inventory by major category, disposal classification, disposal status and disposal procedure. The basis used to itemize the building inventory is outlined in the following sections of this specification.

Every effort has made to identify all components and contents covered under this specification. However, for items identified by Contractor during disposal and demolition not listed within Attachment A, classification is to be performed by the Environmental Consultant with assistance from Contractor and other Bank representatives. Contractor is to submit a complete decommissioning plan for these items including, but not limited to, refrigerants, lubricants, treated water, and other liquids/fluids.

The Environmental Consultant will monitor the removal of wastes from the Building and may perform testing to classify unknown wastes and/or monitor previous classifications for compliance with this specification and applicable regulatory requirements. Compliance with this specification may exceed regulatory or legal standards.

2.1 BUILDING COMPONENTS

All identified components of the Building have been grouped into one of 14 major waste categories as set forth in the first column of Attachment A. The categories were established as a means of grouping similar items within the Building to facilitate disposal. In addition to the major waste categories a component or content description is provided in the second column.

The disposal classification along with the basis for the determination of the classification is provided in Sections 2.2 and 2.3.

2.2 DISPOSAL CLASSIFICATION

All components and contents of the Building have been grouped into one of 9 disposal classifications as set forth in the third column of Attachment A.

1. ACM – Asbestos Containing Material; all components and contents of the Building are to be disposed of as ACM unless otherwise classified in Attachment A or by the Environmental Consultant. This ACM classification includes all personal protective equipment worn during disposal and demolition operations. Material designated ACM is regulated by the Department of Transportation (DOT) for shipping and must be processed and secured in accordance with city, state and federal laws, rules and regulations and any permits to which the demolition project is subject.

The following requirements must be met for all items classified as ACM that contractor chooses to dispose of as C&D material:

- a. The item is non-porous in nature. Porous items include, but are not limited to, unfinished wood, fabric covered items, upholstered furniture, wallboard (sheet rock), carpeting, cubicle partitions and paper items.
- b. The item must be cleaned by Contractor to a visual clearance level of no visual dust to the satisfaction of the Environmental Consultant.
- c. The item must be crushed or otherwise rendered inoperable to eliminate possibility of reuse in its current form (e.g. structural steel can be recycled by smelting but not recycled in any other manner).

If all these requirements are met, the item in question may be disposed of as C&D material as described below.

2. Clean Fill – classification includes inert soil that is not hazardous, i.e. all constituents are below a “safe” level. Clean fill is only that fill contained within the basement A and B levels of the Building plaza area outside the Building footprint.
3. Construction & Demolition (C&D) – classification includes non-hazardous construction and demolition materials along with Building components and contents that do not exhibit a toxicity characteristic as defined in Section 2.3. Waste classified as ACM may be disposed of as C&D if:

- a. The requirements in 1a, 1b and 1c above have been satisfied,
- b. The Environmental Consultant determines that the waste can be disposed of as C&D and,
- c. This specification provides for classification of waste as C&D after on-site processing and in fact the waste is so processed to the satisfaction of the Environmental Consultant.

NOTE: Some states make no provisions for the disposal of C&D wastes, while others (including New York) have specific regulations. Certain states have developed extensive listings of types of material prohibited from C&D landfills. Contractor shall be familiar with the specific disposal requirements of the landfills and confirm compliance with landfill requirements in writing to the Environmental Consultant prior to the use of the landfill.

4. C & D/REFRIG – classification includes non-hazardous construction and demolition materials containing refrigerant.
5. HAZ – The hazardous material classification includes the majority of the electronic equipment. This disposal classification also includes components from other major categories that exhibit a toxicity characteristic as defined below.
6. RECYCLE – classification includes the Building structure components such as anodized aluminum (curtain wall), glass, aluminum conduit, copper wire and structural steel that do not exhibit a toxicity characteristic and meets the criteria in parts 1.a, 1.b and 1.c above. All of these items must be smelted for recovery of raw materials.
7. UNIVERSAL – classification currently covers fluorescent light tubes, mercury containing switches, batteries, and pesticides. The regulations require recycling of the specified material (disposal is prohibited). Removal of Universal waste is subject to criteria of parts 1.a, 1.b and 1.c above.
8. UNKNOWN – disposal classification for items in this category has yet to be determined and ultimate disposal must be reviewed and approved by the Environmental Consultant.
9. WTC DUST – classification includes all fine debris generated from HEPA vacuuming (actual material and filters), the primary and secondary air filtration device (AFD) filters and the cloths used for wet wiping.

2.3 DISPOSAL BASIS

The “Disposal Basis” column in Attachment A sets forth the disposal regulations that provide the legal/regulatory basis for classification. The major laws/regulations are described as EPA, RCRA and TSCA. Some classifications were not driven by any law, rule or regulation. In these instances the disposal basis was determined by the Environmental Consultant and is designated

as EC. These items were classified based upon scientific evaluation and expert opinion of the Environmental Consultant.

- **EPA** – This category includes the ACM and Universal classifications as set forth by the EPA. All components and contents of the building are to be handled as if they are contaminated with friable asbestos.
- **RCRA – Resource Conservation and Recovery Act.** RCRA governs the disposal of hazardous materials. The hazardous classification is based upon EPA guidelines. The EPA requires that waste that exhibits one or more of four (4) dangerous characteristics be considered “hazardous”. The four characteristics are: Ignitability, Corrosivity, Reactivity and Toxicity.

The **Toxicity Characteristic (TC)** identifies wastes likely to leach dangerous concentrations of toxic chemicals (and metals) into groundwater. The determining factor for toxicity characteristic is the **Toxicity Characteristic Leaching Procedure (TCLP)**. Any inventory item which fails the TCLP test is determined to be RCRA hazardous.

RCRA regulations must be followed for the disposition of all waste in the HAZ classification. A Uniform Hazardous Waste Manifest (Form 8700-22) must accompany every shipment from the Building. The manifest allows all parties involved in hazardous waste management (e.g., generators, transporters, facilities that treat, store or dispose of waste (TSDs), EPA, state agencies) to track the movement of hazardous waste from the point of generation to the point of ultimate treatment, storage, or disposal.

- **TSCA – Toxic Substances Control Act.** TSCA governs the management and disposal of PCBs and PCB containing equipment.
- **EC** – The disposition of inventory items with a basis of EC was driven by scientific analysis and expert judgment that equals or exceeds legal/regulatory requirements (See Section 3.4 below for WTC Dust).

3 DISPOSAL/HANDLING PROCEDURES

All components and contents from the Building have been assigned disposal procedures relevant to the waste classification type. Disposal procedures for individual Building components, set forth at the end Attachment A, are determined by the “Disposal Classification” assigned to the component of the Building set forth in the third column of Attachment A. The disposal procedures for unclassified items will be determined by the Environmental Consultant and approved by the Bank. The Environmental Consultant will perform monitoring of all wastes from initial packaging and loading to final disposal at the disposal site. This monitoring may include sampling (validation of waste classification, airborne exposure, etc.).

Building Components		Deutsche Bank Disposition		
Major Category	Description	Disposal Classification	Disposal Basis	Disposal Procedure #
Building Structure	Acoustical Ceiling Tiles and Panels	ACM	EPA	1
Building Structure	HVAC Ductwork	ACM	EC	1
Building Structure	Walls (Drywall)	ACM	EPA	1
Electrical Equipment	Transformers (Dry-type)	ACM	EC	1
Fire System	Fire hoses	ACM	EPA	1
Furniture (Porous)	Carpeting/Carpet Tile/Padding	ACM	EPA	1
Furniture (Porous)	Chairs/Sofas (Upholstered)	ACM	EPA	1
Furniture (Porous)	Cubicle Walls (Fabric Covered)	ACM	EPA	1
Furniture (Porous)	Desk Chairs (Upholstered)	ACM	EPA	1
Furniture (Porous)	Draperies	ACM	EPA	1
Furniture (Porous)	Fabric Wall Coverings/Fabric Wrapped Panels	ACM	EPA	1
Furniture (Porous)	Folding Partitions	ACM	EPA	1
Furniture (Porous)	Lamp Shades (Fabric)	ACM	EPA	1
Furniture (Porous)	Wall Hangings (Includes Artwork and Frames)	ACM	EPA	1
Major Mechanical	Heaters (Induction Units)	ACM	EC	1
Major Mechanical	Motors (Electric)	ACM	EC	1
Other	Personal Items (Clothing, Coats, Briefcases, Luggage, Purses, etc.)	ACM	EPA	1
Other	PPE	ACM	EC	1
Other	Projection Screens (Non-Retracting)	ACM	EPA	1
Other	Projection Screens (Retracting)	ACM	EPA	1
Biological	Plants	C&D	RCRA	2
Building Structure	Bathroom Fixtures	C&D	RCRA	2
Building Structure	Ceiling Framework	C&D	RCRA	2
Building Structure	Walls (Metal Framing)	C&D	RCRA	2
Building Structure	Wiring Terminal Strips	C&D	RCRA	2
Electrical Equipment	Automatic Transfer Switches	C&D	RCRA	2
Electrical Equipment	Disconnect Switches	C&D	RCRA	2
Electrical Equipment	Distribution Bus	C&D	RCRA	2
Electrical Equipment	Electrical Boxes (Junction, Pull)	C&D	RCRA	2
Electrical Equipment	Electrical Panels (Distribution, Lighting, Power, Utility, etc.)	C&D	RCRA	2
Electrical Equipment	Electronic Flow Valves in Bathrooms	C&D	RCRA	2
Electrical Equipment	Emergency Gen Paralleling Gear	C&D	RCRA	2
Electrical Equipment	Fiber Optic	C&D	RCRA	2
Electrical Equipment	Fixtures (Dimmers, Outlets, Switches, etc.)	C&D	RCRA	2
Electrical Equipment	Free Standing Lamp Without Tube	C&D	RCRA	2
Electrical Equipment	Lamps (Free-Standing Incandescent)	C&D	RCRA	2
Electrical Equipment	Manual Transfer Switches	C&D	RCRA	2
Electrical Equipment	Motor Control Centers	C&D	RCRA	2
Electrical Equipment	Portable Demand Unit	C&D	RCRA	2
Electrical Equipment	Sprinkler Control Valves (Fire or Landscaping ?)	C&D	RCRA	2
Electronics	Computer Cables	C&D	RCRA	2
Electronics	Intercoms	C&D	RCRA	2
Electronics	Mail Room Equipment (Folders, Inserters, Openers, Sorters, etc.)	C&D	RCRA	2
Electronics	Paper Shredders	C&D	RCRA	2
Electronics	Printing Equipment	C&D	RCRA	2
Electronics	Vending Machine (Non-Refrigerated)	C&D	RCRA	2
Fire System	Alarm Pull Box	C&D	RCRA	2
Fire System	Fire Extinguishers	C&D	RCRA	3
Fire System	Fire Reserve Tank (12,000 gal wooden tank on roof)	C&D	RCRA	2
Fire System	Fire Suppression Systems	C&D	RCRA	2
Fire System	Zone Valves and Controls	C&D	RCRA	2
Kitchen Equipment	Tenant Installations (Lunch Rooms?)	C&D	RCRA	2
Kitchen Equipment	Utensils/Plates/Pots/Pans/Glassware	C&D	RCRA	2
Major Mechanical	Air Compressors	C&D	RCRA	2
Major Mechanical	Coils (Fan, Reheat etc.)	C&D	RCRA	2
Major Mechanical	Cooling Tower	C&D	RCRA	2
Major Mechanical	Dampers	C&D	RCRA	2
Major Mechanical	Dumbwaiter	C&D	RCRA	2
Major Mechanical	Elevator Cables	C&D	RCRA	2
Major Mechanical	Elevators	C&D	RCRA	2
Major Mechanical	Escalators	C&D	RCRA	2
Major Mechanical	Exchangers	C&D	RCRA	2
Major Mechanical	Fans	C&D	RCRA	2
Major Mechanical	Filters	C&D	RCRA	2
Major Mechanical	Generators	C&D	RCRA	2
Major Mechanical	Heaters (Hot Water)	C&D	RCRA	2

Building Components		Deutsche Bank Disposition		
Major Category	Description	Disposal Classification	Disposal Basis	Disposal Procedure #
Major Mechanical	Miscellaneous (Hardware, Parts, Tools, etc.)	C&D	RCRA	2
Major Mechanical	Motors (Turbine)	C&D	RCRA	2
Major Mechanical	Pneumatic Control Panel	C&D	RCRA	2
Major Mechanical	Pumps	C&D	RCRA	2
Major Mechanical	Steam PRV Stations	C&D	RCRA	2
Major Mechanical	Valves Steam	C&D	RCRA	2
Major Mechanical	Water Treatment System	C&D	RCRA	2
Other	Closet Contents (All Other)	C&D	RCRA	2
Other	Closet Contents (Storage Shelving)	C&D	RCRA	2
Other	Copier Paper Trays	C&D	RCRA	2
Other	Dehumidifier	C&D	RCRA	2
Other	Desk and Drawer Contents	C&D	RCRA	2
Other	Exercise Equipment	C&D	RCRA	2
Other	Hole Punch Unit	C&D	RCRA	2
Other	Lockers	C&D	RCRA	2
Other	Medical Equipment (Biomedical, Non-porous, Non-electronic)	C&D	RCRA	2
Other	Medical Equipment (Oxygen Cylinders)	C&D	RCRA	13
Other	Medical Equipment (Supplies) ⁱⁱ	C&D	RCRA	2
Other	Paper (Stocked Supplies)	C&D	RCRA	2
Other	Pencil Sharpener	C&D	RCRA	2
Other	Personal Air Filters	C&D	RCRA	2
Other	Signage, Graphics and Directories	C&D	RCRA	2
Other	Stapler	C&D	RCRA	2
Other	Window Blinds/Shades	C&D	RCRA	2
Other	Window Glass (Broken into Building)	C&D	RCRA	2
Freon Equipment	Refrigerated Vending Machines	C&D/Refrig	RCRA	4
Major Mechanical	AC Units	C&D/Refrig	RCRA	4
Major Mechanical	Air Dryers	C&D/Refrig	RCRA	4
Major Mechanical	Chiller Units	C&D/Refrig	RCRA	4
Major Mechanical	Direct Expansion Units	C&D/Refrig	RCRA	4
Major Mechanical	Drinking Fountains (with Chiller Units)	C&D/Refrig	RCRA	4
Biological	Contents of Refrigerators	C&D ⁱ	RCRA	2
Biological	Dry Goods (Coffee, Sugar, Canned Goods, etc.)	C&D ⁱ	RCRA	2
Biological	Miscellaneous Food/Drink Items	C&D ⁱ	RCRA	2
Biological	Vending Machine Contents	C&D ⁱ	RCRA	2
Building Structure	Concrete (Floors)	C&D ⁱ	RCRA	12
Furniture (Non-Porous)	Bookcases	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Credenzas	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Cubicle Walls (Non-Porous)	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Desks	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	File Cabinets	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Shelving	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Tables	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Trading Desk Turrets	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Wall Hangings	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Waste Receptacles	C&D ⁱ	RCRA	2
Furniture (Non-Porous)	Wood Chairs (No Fabric or Upholstery)	C&D ⁱ	RCRA	2
Kitchen Equipment	Ovens/Ranges/Dishwashers	C&D ⁱ	RCRA	2
Other	Bound Documents (Binders/Press Folders)	C&D ⁱ	RCRA	2
Other	Laundry Equipment	C&D ⁱ	RCRA	2
Freon Equipment	Icemakers	C&D/Refrig	RCRA	4
Freon Equipment	Package A/C Units	C&D/Refrig	RCRA	4
Freon Equipment	Refrigerators	C&D/Refrig	RCRA	4
Freon Equipment	Water Coolers	C&D/Refrig	RCRA	4
Building Structure	Ceiling Lighting (Non-PCB Containing Ballasts)	C&D ⁱⁱⁱ	RCRA	2
Electrical Equipment	Non-PCB Lighting Ballasts (From Free-Standing Fluorescent)	C&D ⁱⁱⁱ	RCRA	2
Fill Material	Inert Solid Material	Clean Fill	RCRA	14
Electrical Equipment	Automatic Temp System Controllers	Haz	RCRA	6
Electrical Equipment	Battery Charger	Haz	RCRA	6
Electrical Equipment	Dimming Systems	Haz	RCRA	6
Electrical Equipment	Electronic Door Release	Haz	RCRA	6
Electrical Equipment	Elevator Controllers	Haz	RCRA	6
Electrical Equipment	EPS Controls	Haz	RCRA	6
Electrical Equipment	Main Power Distribution Transformers and Small Low Voltage Devices	Haz	TSCA	11

Building Components		Deutsche Bank Disposition		
Major Category	Description	Disposal Classification	Disposal Basis	Disposal Procedure #
Electrical Equipment	Switch Gear	Haz	TSCA	11
Electrical Equipment	Thermostats (HVAC Controls) (Non-Mercury Containing)	Haz	RCRA	6
Electrical Equipment	Transformers (Oil-filled) (PCB Containing)	Haz	TSCA	6
Electrical Equipment	Variable Frequency Drives	Haz	RCRA	6
Electronics	Adding Machines (Calculators)	Haz	RCRA	6
Electronics	AT&T Light Guide Distribution Shelf	Haz	RCRA	6
Electronics	AT&T Paradyne Comsphere 3610	Haz	RCRA	6
Electronics	AV Equipment (Amplifier/Receiver/DVD)	Haz	RCRA	6
Electronics	Cabletron Systems	Haz	RCRA	6
Electronics	Card Scanner	Haz	RCRA	6
Electronics	Cash Registers	Haz	RCRA	6
Electronics	CD Players	Haz	RCRA	6
Electronics	Cellular phones	Haz	RCRA	6
Electronics	Chargers (Docking Stations and Others)	Haz	RCRA	6
Electronics	Coffee Machines	Haz	RCRA	6
Electronics	Copiers	Haz	RCRA	6
Electronics	CPUs	Haz	RCRA	6
Electronics	Currency Counter Equipment (Brandt)	Haz	RCRA	6
Electronics	Desktop Printers	Haz	RCRA	6
Electronics	Dictaphones	Haz	RCRA	6
Electronics	Digital Storage Systems	Haz	RCRA	6
Electronics	Dot Matrix Printers	Haz	RCRA	6
Electronics	Electronic Scales (if any)	Haz	RCRA	6
Electronics	Encryption Equipment	Haz	RCRA	6
Electronics	External CD/DVD/Floppy/ZIP Drives	Haz	RCRA	6
Electronics	Fax Machines	Haz	RCRA	6
Electronics	Fiber Optic Cable Testers	Haz	RCRA	6
Electronics	Hubs	Haz	RCRA	6
Electronics	Keyboards	Haz	RCRA	6
Electronics	Laptops	Haz	RCRA	6
Electronics	Laser Printers	Haz	RCRA	6
Electronics	Microwaves	Haz	RCRA	6
Electronics	Modems	Haz	RCRA	6
Electronics	Monitors (CRT's)	Haz	RCRA	6
Electronics	Monitors (Flatscreen)	Haz	RCRA	6
Electronics	Multiplexers	Haz	RCRA	6
Electronics	Pagers	Haz	RCRA	6
Electronics	Palm Pilots/PDAs	Haz	RCRA	6
Electronics	Phone Accessories (Hands-free Unit, Display Unit)	Haz	RCRA	6
Electronics	Phones (Conference)	Haz	RCRA	6
Electronics	Phones (Desktop, Display)	Haz	RCRA	6
Electronics	Projectors	Haz	RCRA	6
Electronics	Radios	Haz	RCRA	6
Electronics	Repeaters	Haz	RCRA	6
Electronics	Scanners	Haz	RCRA	6
Electronics	Security Cameras	Haz	RCRA	6
Electronics	Security Equipment (Cardreaders, Hardware)	Haz	RCRA	6
Electronics	Security Equipment (Controllers)	Haz	RCRA	6
Electronics	Servers (Including Rack Mount Units)	Haz	RCRA	6
Electronics	Speakers (w/AV equipment)	Haz	RCRA	6
Electronics	Speakers (w/Computers)	Haz	RCRA	6
Electronics	SRX Communications Cabinets	Haz	RCRA	6
Electronics	Surge Protector	Haz	RCRA	6
Electronics	Switches	Haz	RCRA	6
Electronics	Teleconference Equipment	Haz	RCRA	6
Electronics	Telephone Recorders (Monitor & CPU)	Haz	RCRA	6
Electronics	TVs	Haz	RCRA	6
Electronics	Two Way Radios	Haz	RCRA	6
Electronics	Typewriters	Haz	RCRA	6
Electronics	Vitalink (Router?)	Haz	RCRA	6
Fire System	Fire Pump Controllers	Haz	RCRA	6
Fire System	Ionization Smoke Detectors	Haz	RCRA	6
Fire System	Smoke Detectors, Strobes, Annunciators, DGPs, FCS	Haz	RCRA	6

Building Components		Deutsche Bank Disposition		Disposal Procedure #
Major Category	Description	Disposal Classification	Disposal Basis	
Major Mechanical	Tanks (Fuel Oil)	Haz	RCRA	6
Other	Medical Equipment (Biomedical, Electronic Equipment)	Haz	RCRA	6
Other	Medical Waste	Haz	RCRA	5
Other	Other Items (Print Shop Chemicals)	Haz	RCRA	6
Other	PA Systems	Haz	RCRA	6
Building Structure	Ceiling Lighting (PCB Containing Ballasts)	Haz ⁱⁱⁱ	TSCA	11
Electrical Equipment	PCB Lighting Ballasts (From Free-Standing Fluorescent)	Haz ⁱⁱⁱ	TSCA	11
Building Structure	Anodized Aluminum (Curtain Wall)	Recycle	EC	9
Building Structure	Conduit Systems (includes fittings & boxes)	Recycle	EC	9
Building Structure	Elevated Walkways/Stairs	Recycle	EC	9
Building Structure	Glass (Exterior/Interior)	Recycle	EC	9
Building Structure	Piping Systems (includes fittings & valves)	Recycle	EC	9
Building Structure	Structural Steel	Recycle	EC	9
Building Structure	Wire/Cable	Recycle	EC	9
Major Mechanical	Tanks (Condensate, Expansion, Water)	Recycle	EC	9
Other	Loose Documents/Miscellaneous Paper	Shred/C&D	RCRA	7
Building Structure	Ceiling Lighting (Fluorescent Tube)	Universal	EPA	10
Chemical	Pesticides	Universal	EPA	10
Electrical Equipment	Fluorescent Tube From Free Standing Lamp	Universal	EPA	10
Electrical Equipment	Thermostats (HVAC Controls) (Mercury Containing)	Universal	EPA	10
Electrical Equipment	UPS Batteries	Universal	EPA	10
Electrical Equipment	UPS Gear	Universal	EPA	10
Electronics	Power Supplies	Universal	EPA	10
Electronics	UPS w/PC	Universal	EPA	10
Chemical	Cleaning Supplies	Unknown	-	15
Chemical	Coatings (Enamels, Paints, Resins, Roof Coatings, etc.)	Unknown	-	15
Chemical	Maintenance Chemicals (Odor Control, Water Treatment, etc.)	Unknown	-	15
Chemical	Oils (Lubricating, Hydraulic, etc.)	Unknown	-	15
Other	WTC Dust	WTC Dust	EC	8
Spent Cleaning Supplies	Cleaning Cloths/Wet Wipes	WTC Dust	EC	8
Spent Cleaning Supplies	HEPA Filters	WTC Dust	EC	8

Building Components		Deutsche Bank Disposition		Disposal Procedure #
Major Category	Description	Disposal Classification	Disposal Basis	

Notes:

- i. Some states make no provisions for the disposal of C&D wastes, while others (including New York) have specific regulations. Certain states have developed extensive listings of types of material prohibited from C&D landfills. Contractor shall be familiar with the specific disposal requirements of the landfills and confirm compliance with landfill requirements in writing to the Environmental Consultant prior to the use of the landfill.
- ii. Includes, but not limited to: drug samples, tongue depressors, cotton balls, thermometers and bandages.
- iii. Use the following guidelines to identify ballasts that contain PCBs:
 - * All ballasts manufactured through 1979 contain PCBs.
 - * Ballast manufactured after 1979 that do not contain PCBs are labeled "**NO PCBs**".
 - * If a ballast is not labeled "**NO PCBs**", assume it contains PCBs.
 (Reference 40 CFR 761.2)

Building Components		Deutsche Bank Disposition		Disposal Procedure #
Major Category	Description	Disposal Classification	Disposal Basis	

Disposal Procedures:

1. Asbestos Containing Material (ACM)
 - a. Use cautious handling and wetting of waste ACM to help prevent the release of airborne particulates.
 - b. Place ACM in a 6 mil (black) poly bag and seal.
 - c. Move bag to staging area; wipe bag and place in a second 6 mil (black) poly bag.
 - d. Mark bag with OSHA required warning label, generator's name and location at which the waste was generated.
 - e. Place bag into trailer or drop box designated for Asbestos Containing Material.
 - f. Mark transport vehicles in accordance with 40 CFR 61.149(d).
 - g. Dispose of at a certified asbestos landfill, operated in compliance with 40 CFR 61.154.

2. Construction & Demolition debris (C&D)
 - a. HEPA vacuum and wet wipe.
 - b. Place smaller items in a 6 mil clear poly bag.
 - c. Move larger items (furniture, etc.) and the bags of smaller items to staging area. Wipe bags and place in second 6 mil clear poly bag. Label bags as "C & D". Larger items are to be sprayed with an encapsulating solvent.
 - d. Place items into trailer or drop box designated for Construction and Demolition debris.

Note: All items are to be rendered useless by either crushing or compacting in a compactor truck at the loading dock in the building.

3. Fire Extinguishers/Fire Cylinders
 - a. HEPA vacuum and wet wipe.
 - b. Use appropriate controlled release procedures to discharge contents.
 - c. Render cylinder inoperative by removing valve or drilling container.
 - d. Place contents from discharge into 6 mil clear poly bag. Render cylinder inoperative by either removing valve or drilling container and place in 6 mil poly bag.
 - e. Move items to staging area; wipe bag and place in a second 6 mil clear poly bag. Label bags as "C & D".
 - f. Place items into trailer or drop box designated for Construction and Demolition debris.

Note: If any cylinders are found to contain hazardous substances, such as Halon, they must be disposed of by a qualified contractor in a manner approved by the Environmental Consultant.

4. Refrigerant Containing Equipment
 - a. Verify refrigerant has been removed. If not, a licensed refrigerant removal service must be called to properly dispose of refrigerant.
 - b. Remove door on refrigerators and freezers.
 - c. Follow Remediation Procedure #2 for Construction and Demolition Debris.

5. Medical waste
 - a. Gather existing Medical Waste Bags (red) from medical waste receptacles located in the medical area on the 9th floor. The bags shall be securely tied so as to prevent leakage or expulsion of solid or liquid waste during storage, handling, or transport.
 - b. Place in a 6 mil (clear) poly bag and seal.
 - c. Move bag to staging area; wipe bag and place in a second 6 mil (clear) poly bag.
 - d. Label bag as "Medical Waste".
 - e. Place bag into drop box designated for Medical Waste Incinerator.

6. Hazardous Material
 - a. HEPA vacuum and wet wipe.
 - b. Place item into a 6 mil (clear) poly bag.
 - c. Move items to staging area. Wipe bag and place in a second 6 mil (clear) poly bag.
 - d. Label as "Hazardous Waste" along with Manifest document number and Generator's name and address.
 - e. Place items into trailer or drop box designated for Hazardous Material.

Note: Must follow Hazardous Waste Manifest System using the Hazardous Waste Manifest, EPA Form 8700-22. Hazardous material is to be disposed of utilizing a macroencapsulation process. This process requires the waste material to be placed in a 20 yd³ "tub", encapsulated in a slurry, heat sealed, and placed into the appropriate landfill. This macroencapsulation process is patented by Chemical Waste Management. All hazardous waste material is to be disposed of at CWM's Model City, New York facility.

Building Components		Deutsche Bank Disposition		Disposal Procedure #
Major Category	Description	Disposal Classification	Disposal Basis	

Disposal Procedures Continued:				
	<p>7. Documents</p> <ul style="list-style-type: none"> a. HEPA vacuum documents of all visible dust. b. Place documents in 6 mil (yellow) poly bags. c. Move bags to shredding containment decon and wipe outer surface of bag. d. Remove documents from bag and shred; place shredded documents back in bag. e. Move bags to staging area. Wipe bag and place in second 6 mil (yellow) poly bag. f. Place items into trailer or drop box designated for Municipal Waste Landfill. <p>8. WTC Dust</p> <ul style="list-style-type: none"> a. WTC Dust is defined as all debris generated from HEPA vacuuming (actual dust and filters), cloths used for wet wiping and the primary and secondary AFD filters. b. Place in a 6 mil (clear) poly bag and seal. c. Move bag to staging area; wipe bag and place in a second 6 mil (clear) poly bag. d. Mark bag as "WTC Dust". e. Place bag into trailer or drop box designated for WTC Dust. <p>Note: WTC Dust is to be disposed of utilizing a stabilization process. This process requires the waste material to be stabilized in a slurry, and placed into the appropriate landfill cell. All WTC Dust is to be disposed of at CWM's Model City, New York facility.</p> <p>9. Recycled Material</p> <ul style="list-style-type: none"> a. HEPA vacuum and wet wipe material surface. b. Segregate waste into similar material types and send to appropriate recyclers. <p>10. Universal Wastes</p> <ul style="list-style-type: none"> a. HEPA vacuum and wet wipe. b. Place in 6 mil clear poly bag or shrink wrapped. Fluorescent bulbs should be packed in a way as to prevent breakage. c. Move items to staging area; wipe bag or outer wrapping and place in second 6 mil clear poly bag. Label bag as "Universal Waste". d. Segregate waste into similar component types and place items into trailer(s) or drop box(es) for appropriate recycler type. <p>Note: In advance of the selection of the recycler, a request in writing must be made to the Environmental Consultant. The Environmental Consultant must approve selection of any recycling facility. Final Bank approval is required prior to removal of the Universal wastes from the Building.</p> <p>11. PCB Containing Equipment</p> <ul style="list-style-type: none"> a. HEPA vacuum and wet wipe. b. Place in a 6 mil clear poly bag or wrap and move to staging area. Label bags as "PCB Material". c. Pack ballast in 55-gallon drums. Fill void space with an absorbent packing material. Label drums according to DOT Regulations. Place drums into trailer designated for TSCA Incinerator. d. Transformers must be drained of dielectric fluid and then flushed with an appropriate solvent. The dielectric fluid and the resulting PCB-contaminated solvent must be placed in a leak-proof containers. Place containers and transformers into trailer designated for TSCA approved Incinerator. e. Other PCB-contaminated electrical equipment (e.g., electric motors, switches, voltage regulators, etc.) must be drained of all free-flowing liquid before disposal. Place the resultant PCB-contaminated liquid in a leak-proof container. Place containers and equipment into trailer designated for TSCA approved Incinerator. <p>12. Building Concrete</p> <ul style="list-style-type: none"> a. Follow all requirements for C&D material in 2 above, including, without limitation HEPA vacuum and wet wipe and spraying with an encapsulating solvent. b. Concrete floors and foundations are to be hauled to a C&D landfill. <p>13. Oxygen Cylinders</p> <ul style="list-style-type: none"> a. HEPA vacuum and wet wipe. b. Place in a 6 mil (color?) poly bag and move to well ventilated area. c. Remove cylinder from bag and discharge to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. d. Render cylinder inoperative by either removing valve or drilling container. e. Place items back into bag and move to staging area; wipe bag and place in a second 6 mil (color?) poly bag. f. Place items into trailer or drop box designated for Construction and Demolition debris. 			

Building Components		Deutsche Bank Disposition		Disposal Procedure #
Major Category	Description	Disposal Classification	Disposal Basis	

Disposal Procedures Continued:

14. Clean Fill

- a. Load into trucks and haul to landfill.
- b. Cover truck prior to leaving the site.

15. Chemicals

- a. Due to the potential variety of chemicals at 130 Liberty, preparation of disposal procedures is ongoing and addressed on a case by case basis. Contractor to consult with the Bank's Environmental Consultant for proper disposal method prior to disposing of item.