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**WASTE MANAGEMENT FACILITIES FAULT TREE
DATABANK 1995 STATUS REPORT (U)**

August 16, 1995

By:

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Safety Engineering Department
Engineering and Construction Services Division
Westinghouse Savannah River Corporation

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Waste Management Facilities Fault Tree Databank 1995 Status Report (U)

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August 16, 1995

TO: Status Report Recipient

FROM: W.V. Minnick *WV*

Attached is a copy of the Waste Management Fault Tree Data Bank 1995 Status Report. The report contains the revised listing of the Area, Source, Facility, Operation, and Equipment codes to be used in conjunction with 'Risk Assessment Methodology's Fault Tree Data Banks User's Guide' to extract information from the data bank.

The revised listing represents a culmination of internal reviews and user surveys to improve databank operations. The user interface was improved with the addition of revised alpha numeric operation codes and a categorized equipment code listing which simplifies search code selection. Approximately 300 Waste Management Equipment Codes were added to minimize future additions, permit more specific search capability and reduce the need for manual review of large volume dumps. The databank was recoded (35,000 entries) to ensure uniform application of the revised codes and remove limitations imposed by previous codes.

The recoding effort has taken 12 months. During this time some 1993, all 1994 and all issued 1995 incidents were coded but backlogged for entry. It is anticipated the backlog will be worked off during the next 9 to 12 months concurrent with entry of current data.

Safety Information Management Analysis data bank personnel are located in Centennial Corporate Center, Building 992-1W. Databank personnel are ready to help you with all your data needs including data analysis. For more information on the SIMA data banks please contact W.V. Minnick, ext. 4-5174 or K.A. Wellmaker, ext. 4-5087.

PROJECT: WM Databank Status Report
DOCUMENT: WSRC-TR-95-0173
TITLE: **Waste Management Facilities Fault Tree Databank
(WM) 1995 Status Report**

APPROVALS

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8/21/95

Date

8/23/95

Date

8/21/95

Date

WASTE MANAGEMENT FAULT TREE DATABANK (WM) 1995 STATUS REPORT (U)

INTRODUCTION

The Safety Information Management and Analysis Group (SIMA) of the Safety Engineering Department (SED) maintains compilations of incidents that have occurred in the Separations and Process Control, Waste Management, Fuel Fabrication, Tritium and SRTC facilities. This report records the status of the Waste Management (WM) Databank at the end of CY-1994. The WM Databank contains more than 35,000 entries ranging from minor equipment malfunctions to incidents with significant potential for injury or contamination of personnel. This report documents the status of the WM Databank including the availability, training, sources of data, search options, Quality Assurance, and usage to which these data have been applied. Periodic updates to this memorandum are planned as additional data or applications are acquired.

In June 1992, the Waste Management incidents were removed from the Separation and Process Control Databank (SEPR) and incorporated in the Waste Management Databank. Since its inception, 440 requests for data have been processed for use outside the SIMA group. The number of data searches performed by others is not recorded. Data searches performed for others by SIMA are tabulated in Table 1.

The Safety Information Management & Analysis Group is here to assist in searching the databanks as well as data analysis. Coding assigned to incidents and events are included in this report however, our experience with the data entry and searching for historical data has proven to be a valuable asset available to you. If you do access the databanks directly, please keep in mind that if you plan to use information from the databanks to generate Level 1 calculations or modify Technical Baselines you must:

- be sure the search codes you use will retrieve a complete data set
- be sure that the date range you use will ensure that the source documents were available for the search category
- be sure to remove duplicates that may have been reported from more than one source
- be sure that each entry is appropriate for the analysis

SIMA is prepared to provide you with results from the databanks rather than raw data. Please contact us if you need help.

If you wish to gain access to WM and other SIMA Fault Tree Databanks you must fill out a CPC-16 form requesting an account to the SACDR1 node with read only access to the SIMA Fault Tree Databanks. The form must be signed by the level 3 manager and forwarded to SIMA (K. A. Wellmaker, 992-W1) for additional approval. Upon receipt of the form by SIMA, training will be provided and a copy of the " Risk Assessment Methodology Fault Tree Databank User Guide (U)" , WSRC-IM-92-50, will be issued.

For more information on the SIMA databanks, please contact W. V. Minnick 992-1W, ext. 4-5174, or K. A. Wellmaker, 992-1W, ext. 4-5087.

AVAILABILITY

WM Databank information is available to WSRC personnel upon request to the SIMA group. Printouts are usually available on the day of the request. Distribution of the data outside of DOE or direct DOE contractors requires approval of DOE-SR. Direct access to the data for updates and changes is limited to authorized personnel to protect against unauthorized use and tampering. However, if errors are found, the customer is encouraged to contact SIMA so that corrections may be made.

Statistical analysis of data may be obtained from SIMA using a Work Authorization Document (WAD). The analysis includes both frequency and consequence determinations. Trend plots and statistical values such as mean, median, maximum, minimum, 90% bounds, sigma and error factor can be generated.

SIMA databank personnel are located in the Centennial Corporate Center, Building 992-1W

W. V. Minnick	Rm 349	644-5174
K. A. Wellmaker	Rm 238	644-5087
C. H. Sims	Rm 202	664-5074
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L. M. Adams	Rm 252	644-5406

TRAINING

The Risk Assignment Methodology Fault Tree Databanks User's Guide (U), WSRC-IM-92-50 was developed for distribution to databank users. This manual is a self-help guide that starts with the sign-on screen and ends with the printed hard copy of your search. There are many options explained in the guide to help customers with their inquiries. Training classes or individual training are available by contacting K. A. Wellmaker at extension 4-5087. If you intend to use the WM data for Technical Base Line Calculations you are required to note the admonishments shown on the computer screen and on each hard copy search, and advised to discuss the data limitations with SIMA personnel.

SOURCES OF DATA

As shown on table 3, data have been abstracted from 60 types of sources, 47 WSRC publications, and 6 unpublished sources such as log books. The range of dates for incidents abstracted from each of these sources is shown on data sheet 3.

Final data from published sources and one-year-old log books are coded on a continuous basis but an input lag of about a year is currently being experienced due to input resource limitations. Incidents as early as 1953 are included within the WM Databank. Potential data sources not listed in table 3 should be reported to K. A. Wellmaker at 644-5087.

SEARCH OPTIONS

Data may be searched by a variety of options as described in the user's guide. As an inquiry aid, each incident is assigned codes to identify: Area, Source of document [Table 3], Facility [Table 4], Operation [Table 5], Equipment Code or Key Word [Table 6, 7, and 9]. All search requests performed by the SIMA group for WSRC personnel will be mailed through the site mail or held at 992-1W for pickup.

USAGE

The WM Databank incidents have been applied to a wide range of applications. Some of these applications are shown in Table 10.

QUALITY ASSURANCE (QA)

The SRS Fault Tree Databanks are categorized as a general service (GS) resource which provides a baseline for both QA protocol and user responsibility when utilizing output of the Databanks for Technical Baseline calculations (see sections 2.25, 2.31, and 2.32 of Conduct of Engineering and Technical Support (U), WSRC Procedure Manual E7). In general, raw data from the SRS Fault Tree Databanks cannot be used directly in critical calculations without proper qualification of data for that particular application. The proprietors of the Databanks (currently Safety Information Management Analysis In the Safety Engineering Department) will perform this function for customers upon request, or the user may choose to do so themselves.

Procedures have been developed that describe the key elements of the Databank support/maintenance. They document activities such as data extraction from sources, data entry, data editing, and sorts/searches. These procedures are intended to serve as guidelines for those performing the activities and to serve as resource for those involved in data qualification.

Efforts have also been concentrated in keeping users aware of Databank QA. In the opening screens of the data Bank user interface software, Databank users receive a written reminder of the QA categorization, including related obligations and responsibilities. In addition, new users are required to acknowledge receipt and familiarity with documentation regarding proper use of Databank Information in critical applications.

CODE UPGRADE PROGRAM

The Waste Management Databank search codes have been revised to improve the user interface. The revision program required recoding 35,000 entries of the WM Databank. During the recoding task, published data were coded on a continuous basis and backlogged. These data are being entered; however, there will be a lag of approximately one year until the backlog can be worked off.

TABLE 1
USAGE OF WM FACILITIES FAULT TREE DATABANK
(Customer Requested Data Searches)

Year	Requesting Organization	No. of Requests
1994	SRTC	3
	Safety Technology	3
1994	E&CSD	201
	Safety Engineering Department	199
	Site Configuration and Safety Services	2
1994	E&PD	1
1994	SRS Site	25
	Waste Management	17
	Waste Management Technology	2
	Waste Management Engineering	1
	Tritium Engineering	1
	Site Geo Technology	1
	General Council Office	3
1994	OTHER	50
	Westinghouse-Hanford	4
	SAIC	34
	DOE-SR	1
	Los Alamos National Laboratory	1
	VECTRA	1
	Radiological Assessment Corporation	9
TOTAL		280

TABLE 2
AREA CODE DESIGNATION

AREA CODES

A
B
C
D
E
F
G
H
K
L
M
N
P
Q (OFF-SITE)
R
S
T
U
V (ON-SITE OTHER THAN IDENTIFIED AREAS)
Y
Z

TABLE 3
SOURCE TITLE, SOURCE CODE, AND DATA RANGE

<u>SOURCE TITLE</u>	<u>SOURCE CODE</u>	<u>FROM</u>	<u>TO</u>
OPERATING INCIDENT REPORT (OI)	01	1961	1990
UNUSUAL INCIDENT REPORT (UI)	02	1955	1989
SPECIAL HAZARDS INVESTIGATION	03	1954	1988
DAILY TELETYPE	04	1956	1988
WORKS TECHNICAL MONTHLY REPORT	07	1955	1982
FIRE DEPARTMENT REPORT	08	1956	1992
SALVAGE YARD RECEIPT REPORT	09	1975	1975
HEALTH PHYSICS REPORT	10	1954	1991
PRIVATE COMMUNICATIONS	11	1975	1889
EQUIPMENT HISTORIES	12	1956	1991
SITE EVALUATION REPORT	13	1989	1989
RADIATION CONTROL MONTHLY REPORT	19	1969	1976
WORKS ENGINEERING MONTHLY REPORT	20	1956	1993
POWER DEPT UNUSUAL INCIDENT REPORTS	22	1958	1988
WASTE MGMT TECH INCIDENT REPORT (WMI)	23	1979	1990
WASTE MANAGEMENT MONTHLY REPORT	24	1970	1990
POWER DEPARTMENT WEEKLY REPORT	26	1953	1975
HEALTH PHYSICS LOG BOOK	28	1970	1991
BURIAL GROUND HP LOG	29	1962	1989
MAINTENANCE (MIAC) RECORD	31	1976	1984
SENIORS LOG BOOK, WASTE TANK FARM	41	1978	1989
WASTE TANK ANNULUS ALARM REPORT	47	1981	1988
WASTE MGMT TECH MONTHLY REPORT	48	1981	1988
BURIAL GROUND WASTE MANAGEMENT	50	1972	1988
SPECIAL INCIDENT REPORT	51	1979	1982
HEALTH PROTECTION EXPOSURE RECORD	61	1970	1984
UNUSUAL OCCURRENCE REPORT LOG	62	1987	1989
SRP ENVIRONMENTAL WEEKLY REPORT	64	1984	1988
AREA METALLURGICAL REPORT	67	1957	1990
SAFETY DEPARTMENT REPORT	68	1983	1991
NON-CONFORMANCE REPORT	76	1987	1988
DWPF INCIDENT REPORT	79	1987	1990
24-HOUR SHORT FORM INCIDENT REPORT	82	1987	1994
MONTHLY CONTAMINATION STATISTICS	84	1985	1990
HEALTH PROTECTION WASTE MANAGEMENT MONTHLY REPORT	87	1985	1990
DOE OPERATIONS	90	1990	1994
DWPF ISSUE MANAGEMENT TRACKING	91	1990	1991
ISSUES MANAGEMENT MONTHLY REPORT	92	1989	1990
ECC EVALUATION REPORT	95	1990	1990

TABLE 3

SOURCE TITLE, SOURCE CODE, AND DATA RANGE (Cont'd)

<u>SOURCE TITLE</u>	<u>SOURCE CODE</u>	<u>FROM</u>	<u>TO</u>
DWPF FINAL EVALUATION REPORT	97	1990	1992
10 DAY OCCURRENCE REPORT	2B	1990	1994
FINAL OCCURRENCE REPORT	3B	1990	1994
SAFETY NEWSLETTER	5B	1991	1991
EMERGENCY OPERATIONS ACTIV. LOG (TSC)	8B	1991	1992
SRTC SAFETY MORNING REPORT	1C	1991	1993
SCRAP RECOVERY POWER SURVEILLANCE LOG	5C	1992	1992
FIRE DEPARTMENT 30 DAY REPORT	7C	1992	1994
HLWP (WM) DAILY OPERATIONS REPORT	8C	1992	1993
SITE CENTRAL SAFETY COMM. MINUTES	4D	1992	1992
SWM DAILY OPERATIONS REPORT	5D	1992	1994
241F SUPERVISOR LOGSHEET	9E	1993	1993
HIGH LEVEL WASTE DEPARTMENT OPERATIONS MORNING REPORT	1G	1993	1994
HIGH LEVEL WASTE DEPT WEEKLY REPORT	2G	1993	1994
HIGH LEVEL WASTE DEPT DAILY REPORT	3G	1993	1994
DWPF DAILY OPERATIONS REPORT	4G	1993	1994
SRTC MATERIAL TECH SECTION MONTHLY REPORT	5G	1993	1994
HIGH LEVEL WASTE ENGINEERING MONTHLY REPORT	6G	1993	1994
LESSONS LEARNED NEWSLETTER	7G	1994	1994
DOE OPERATING EXPERIENCE WEEKLY SUMMARY	8G	1994	1994
THE 82-H CONTROL ROOM LOG	3C	1989	1992
WASTE MANAGEMENT MORNING REPORT	9B	1991	1991

TABLE 4
FACILITY CODES

A	=	CANYON
B	=	B-LINE
C	=	OUTSIDE FACILITIES
D	=	A-LINE
E	=	RBOF
G	=	BETA-GAMMA INCINERATOR
H	=	OTHER THAN IDENTIFIED FACILITY CODES
I	=	REACTOR DIVISION
J	=	OLD RADIOACTIVE WASTE BURIAL GROUND (643-E)
L	=	LABORATORY 772-F
M	=	TRANSPORTATION ON-SITE
O	=	TRANSPORTATION OFF-SITE
P	=	MPPF
Q	=	ETF
R	=	CONSOLIDATED INCINERATION FACILITY
S	=	DWPF
T	=	TANK FARM
V	=	SRTC
W	=	WASTE (E AREA, 710-U, 708-2G, 708-4G, 709-G)
X	=	TRITIUM FACILITIES
Y	=	SALTSTONE DISPOSAL VAULTS
Z	=	SALTSTONE

TABLE 5
OPERATION CODES

B2	BASINS	
B3	BUILDING, LEVEL	
B5	BUILDING, STRUCTURAL COMPONENTS	
C1	CELL COVER	
C2	CHEMICAL PREPARATION AND STORAGE	
C4	COMMUNICATION	
C5	COMPACTING/INCINERATION	
C6	COMPUTER	
C8	CONSTRUCTION	
D3	DESIGN	
D5	DISTILLATION TOWER	
E3	ELECTRICAL (Repair, Replacement, Calibration)	
E5	EMERGENCY RESPONSE	
E7	ENVIRONMENTAL	
E8	EVAPORATOR	
E9	EXTENDED SLUDGE PROCESSING (ESP)	
F3	FIRE SYSTEM	
G3	GAS-COMPRESSED	
H1	HANDLING EQUIPMENT	
H3	HEALTH PROTECTION	(Includes Vamps, Cams, Radiation-Contamination, Monitors)
H8	299H BUILDING	
I2	INSPECTIONS/TESTS	
I5	IN-TANK PRECIPITATION (ITP)	
M5	MECHANICAL - OPERATIONS	(Alignment, Cutting, Filtering, Machining, Measuring, Mixing, Sealing, Welding)
N5	NON REGULATED AREA	
O3	OFFSITE	
P1	PACKAGING	
P5	PROCESS CONTROL	(Control Operations, Control Variables, Efficiency, Energy/Propulsion, Intermediate State, Ion Exchange/Separations, Operating Mode)
P7	POWER	

TABLE 5
OPERATION CODES (Cont'd)

Q3	QUALITY ASSURANCE
R1	RAILROAD TUNNEL/RAILROAD
R3	RESTORATION
S1	PERSONNEL SAFETY
S2	PROCESS SAFETY
S3	SALTSTONE
S5	SAMPLING
S7	SECURITY
S8	SHIPPING
T4	TANK (All references to tanks)
T5	TRANSFER (Inter Area, Intra Area Transfer Equipment, Pipe, Leak Detection and Diversion Boxes, etc.)
T7	TRAINING
U1	UTILITY (Water, Steam, Sanitary Sewer)
V1	VACUUM
V2	VEHICULAR
V5	VENTILATION
V7	VITRIFICATION
W1	WASTE-INTERMEDIATE LEVEL/HIGH LEVEL
W2	WASTE-HAZARDOUS
W3	WASTE-INTERIM STORAGE
W4	WASTE-SANITARY
W5	WASTE-TRENCH DISPOSAL
W6	WASTE-TRANSURANIC (TRU-Hazardous & Non-hazardous)
W7	WASTE-VAULT DISPOSAL
W8	WASTE-MIXED
W9	WASTE-LOW LEVEL

TABLE 6
EQUIPMENT CODES
(Alphabetical Order)

700	10 GALLONS, GREATER THAN
699	10 GALLONS, LESS THAN
755	1006D

A

094	ABSORBER
049	ABSORBER, ACID
683	ABSORPTION/UPTAKE
755	ACCEPTANCE CRITERIA
130	ACCOUNTABILITY
049	ACID, ABSORBER
963	ACID DRAIN CATCH TANK
786-901	ACID, FORMIC
044	ACID NITRIC
787	ACID OXALIC
037	ACTIVITY
226	ADDED, PROTECTIVE DEVICE
003	ADDITION ERROR, CHEMICAL
740	ADJUSTMENT TANK SLUDGE RECEIPT
149	ADJUSTMENT, VALENCE
822	ADMINISTRATIVE CONTROL, INADEQUATE
068	AGITATOR
988	AIR CONDITION
087	AIR LOCK
088	AIR REVERSAL
151	AIR, BREATHING
482	AIR, COMPRESSED
496	AIR, INSTRUMENT
705	AIR, PLANT
622	AIR, PROCESS
153	AIR BORNE CONTAMINATION
686	AIRCRAFT
989	ALGAE
282	ALARM
639	ALARM, FALSE
270	ALARM, HM
449	ALARM, TROUBLE
202	ALIGNMENT
133	ALKALI, CAUSTIC
554	AMERICIUM
526	AMERICIUM, CURIUM, CALIFORNIUM
502	AMMONIA COMPOUND
124	ANALYTICAL
754	ANALYZER, LOWER EXPLOSIVE LIMIT
882	ANALYZER, BENZENE
753	ANALYZER, HYDROGEN

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

902	ANALYZER, MOC
698	ANALYZER, OXYGEN
703	ANIMAL/INSECT/BIRD
436	ANNULUS
717	ANNULUS, INSPECTION
387	ANNULUS, VENTILATION
670	ARGON
702	ASH BUILDUP
486	ASPHALT/PAVEMENT
267	ASSEMBLY
942	AUTOMATIC TRANSFER SWITCH
802	AUX. PUMP PIT 512S

B

746	B-25 CONTAINERS
750	B12 CONTAINERS
166	BAG
666	BAG SEALER
082	BAG, DUST
181	BAIL, LIFTING
491	BALANCE
922	BARRICADE/FENCE/ENCLOSURE/DIKE
306	BASIN, DELAY
180	BASIN, RETENTION
047	BASIN, SEEPAGE
968	BASIN, STORAGE FUEL/TARGET
438	BATTERY
501	BEARINGS
923	BECHTEL
439	BELL
980	BELT
693	BETA GAMMA, INCINERATOR
785	BENZENE
882	BENZENE ANALYZER
582	BIOASSAY AND/OR CHEST COUNT
703	BIRD/ANIMAL/INSECT
138	BLANK
949	BLOW DOWN/UNPLUG/FLUSH
083	BLOW RING
093	BLOWER, FANS
179	BOARD/PANEL BOARD/CONTROL ROOM/CONTROL
402	BOILER
011	BOILOFF
010	BOILOVER
389	BOX, DIVERSION
931	BOX, LEAK DETECTION

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

227	BRAKE
222	BREAKERS, CIRCUIT/ELECTRICAL
050	BREAKTHROUGH
151	BREATHING AIR
200	BRIDGE, TURNTABLE, CRANES, HOISTS, TRAVELING
231	BROKEN, DAMAGED
574	BROKEN, EQUIPMENT.
982	BUILDING 210-S, SERVICE BUILDING
774	BUILDING 210-Z
903	BUILDING 221-S
869	BUILDING 241-96H ITP FILTER
775	BUILDING 250-S, GLASS WASTE STORAGE
776	BUILDING 291-S, EXHAUST STACK
777	BUILDING 292-S, FAN HOUSE
778	BUILDING 294-S, SAND FILTER
860	BUILDING 299H
779	BUILDING 422-S, BULK FRIT AND CHEMICAL STORAGE
780	BUILDING 430-S, ORGANIC WASTE STORAGE TREATMENT
756	BUILDING 511-S PUMP PIT
757	BUILDING 641-G IAL PUMP PIT
783	BUILDING 706-S , DCS STAGING
784	BUILDING 980-S, WATER AND CHEMICAL WASTE TREATMENT
781	BUILDING 981-S, COOLING TOWER
779	BULK FRIT AND CHEMICAL STORAGE 422-S
234	BURIAL GROUND
687	BURIAL UNINTENTIONAL
473	BURNED MATERIAL, MISC OR UNKNOWN
694	BURNER
696	BURNING, SOLID
695	BURNING SOLVENT

C

414	CABINET, ENTRY/EXIT OF MATERIAL
767	CABINET, FIELD TERMINAL/JUNCTION BOX
201	CABLE /WIRING /CORDS
137	CALCULATION ERROR
440	CALIBRATION
245	CAME APART
720	CAMERA, TV
742	CANISTER
846	CANISTER, DECONTAMINATION CELL
505	CANS, DRUMS
459	CANVAS/CLOTH
943	CAPACITOR
863	CAPPING
908	CAR, TRANSFER

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

524	CAR, TRUCK
210	CAR/RAIL CAR, CASK
871	CARD/MODULE/BOARD
684	CART
628	CASH COIL PRESSURE SYSTEM
207	CASK
210	CASK, CAR/RAIL CAR
188	CATALYST
979	CATCH TANK
963	CATCH TANK, ACID DRAIN
962	CATCH TANK, FLOOR DRAIN
133	CAUSTIC ALKALI
846	CELL, CANISTER DECONTAMINATION
172	CELL COVER
844	CELL, CHEMICAL PROCESSING
182	CELL, DECONTAMINATION
847	CELL, MAINTENANCE/DECONTAMINATION
850	CELL, MELTER
851	CELL, PROCESS
845	CELL, SALT PROCESS
849	CELL, SAMPLE AND ANALYTICAL
277	CELL, WASTE
848	CELL, WELD
768	CENTER, LOAD
625	CENTER, MOTOR CONTROL
441	CHAMBER
429	CHANGE, GLOVE
492	CHARGER/GENERATOR
433	CHECK, LEAK
824	CHECK, SOURCE
003	CHEMICAL ADDITION ERROR
690	CHEMICALS, HAZARDOUS
836	CHEMICAL/INDUSTRIAL WASTE TREATMENT
779	CHEMICAL STORAGE BLDG. 422-S, BULK FRIT
784	CHEMICAL WASTE TREATMENT BLDG. 980-S WATER &
582	CHEST COUNT AND/OR BIOASSAY
764-935	CHILLERS PROCESS
821	PROCESS, WATER
065	CHIPPED/CRACKS/CRACKING
452	CHLORIDES
513	CHOCKS
870	CHROMATED WATER
966	CIRCUIT
218	CIRCUIT, ELECTRICAL SHORT
222	CIRCUIT/ELECTRICAL BREAKERS
950	CLAY/SOILS
260	CLOSED VESSEL ENTRY
512	CLOSURE, TIE DOWN

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

459	CLOTH/CANVAS
672	CLOTHING, CONTAMINATION
877	CLOTHING, PERSONAL/EFFECTS
079	CLOTHING, PROTECTIVE
401	COAL
494	COATING/LINER
014	COIL LEAK/TUBE BUNDLE LEAK
628	COIL, CASH PRESSURE SYSTEM
167	COIL, COOLING
132	COIL, HEATING
825	COLD FEED PREP
766	COLLAPSE STEAM
080	COLLECTION, DUST
770	COLLECTION TANK, RECYCLE
504	COLLISION
886	COLUMN, CESIUM REMOVAL
043	COLUMN FLOODING
743	COLUMN, MERCURY PURIFICATION
119	COLUMNS, DEIONIZER/ION EXCHANGE
795	COLUMN, STRIPPER
868	COMMUNICATION, INADEQUATE
159	COMMUNICATION, PHONE
806	COMMUNICATION SYSTEM
697	COMBUSTION, PROGRAMMERS
453	COMBUSTION, SPONTANEOUS
726	COMPACTOR, WASTE
225	COMPONENT, FAULTY
217	COMPONENT, JAMMED
233	COMPONENT STRUCTURAL
502	COMPOUNDS, AMMONIA
482	COMPRESSED AIR
110	COMPRESSOR
481	COMPUTER
803	COMPUTER PROGRAM ERROR
712	CONCENTRATE, TRANSFER SYSTEM
633	CONCRETE
855	CONDENSATE, TANK
034	CONDENSER
880	CONDUCT OF OPERATIONS
929	CONNECTOR
558	CONSTRUCTION DIVISION
224	CONTACT, ELECTRICAL
724	CONTAINER, UNAUTHORIZED
239	CONTAINER, SHIPPING
143	CONTAINER/VESSEL/TANK
746	CONTAINERS, B-25
751	CONTAMINATION
153	CONTAMINATION, AIRBORNE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

672	CONTAMINATION, CLOTHING
048	CONTAMINATION, FACILITY OR EQUIPMENT
875	CONTAMINATION, FIXED
682	CONTAMINATION, NASAL
548	CONTAMINATION, SKIN
877	CONTAMINATION, PERSONAL CLOTHING/EFFECTS
804	CONTAMINATION, PERSONNEL MONITOR
811	CONTAMINATION, PROCESS MONITOR
876	CONTAMINATION, SMEARABLE
096	CONTROL, FLOW
822	CONTROL, INADEQUATE ADMINISTRATIVE
680	CONTROLLER
625	CONTROL, MOTOR CENTER
759	CONTROL, PRESSURE
873	CONTROL, PROGRAMMABLE LOGIC
179	CONTROL ROOM/CONTROL BOARD/PANEL BOARD
723	CONTROL, QUALITY
899	CONTROL SYSTEM, DISTRIBUTIVE
062	CONTROL, TEMPERATURE
790	CONVEYOR
801	CONVEYOR, PNEUMATIC
086	CONVEYOR, SCREW
167	COOLING COIL
305	COOLING TOWER
781	COOLING TOWER, BUILDING 981-S
045	COOLING WATER
201	CORD/CABLE/WIRING
016	CORROSION
749	CORROSION (MIC) MICRO BIOLOGICALLY INDUCED
985	COUNTER/TIMER/INTEGRATOR
172	COVER, CELL
065	CRACKS/CRACKING/CHIPPED
200	CRANES/HOISTS/TRAVELING BRIDGE/TURN TABLE
807	CRANE, INCELL
046	CREEK, FOUR MILE
095	CREEK, THREE RUNS
755	CRITERIA, ACCEPTANCE
005	CRITICALITY POTENTIAL
522	CROSSING, RR
117	CRUCIBLE
719	CTS
948	CTS LOOP
738	CUTTER, PIPE
291	CUTTING

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

D

527	D20/TRITIUM
219	DAMAGE, MECHANICAL
475	DAMAGE, ELECTRICAL EQUIPMENT
231	DAMAGED/BROKEN
476	DAMAGED, TRANSPORTATION EQUIPMENT
623	DAMPER
178	DATE, OUT OF
783	DCS STAGING BLDG. 706-S
521	DEBRIS
164	DECANT
115	DECAY/DECOMPOSITION
794	DECANTER
170	DECAY HEAT
947	DECOMMISSION/DEMOLITION
115	DECOMPOSITION/DECAY
182	DECONTAMINATION CELL
415	DECONTAMINATION
823	DEFICIENCY, WORK ORDER
884	DEFLAGRATION
112	DEFORMATION
632	DEHUMIDIFIER
119	DEIONIZER/ION EXCHANGE COLUMN
306	DELAY BASIN
023	DEMISTER
997	DEMOLITION/DECOMMISSION
257	DEPARTMENT, REACTOR
058	DESIGN
895	DESIGN, ERROR/IMPROVEMENT
954	DESALT/DESCALE
646	DETECTION, FIRE AND SUPPRESSION
993	DETECTOR
226	DEVICE ADDED, PROTECTIVE
229	DEVICE MISSING, PROTECTIVE
669	DEVICE, TRANSFER
857	DEWATERING FACILITY
996	DIAPHRAGM
419	DIES
470	DIESEL
298	DIFFICULTY, PERSONNEL
054	DIFFICULTY, PROCEDURAL
769	DIGGING
992	DIKE/FENCE/BARRICADE/ENCLOSURE
252	DIMENSIONS
442	DIODE
624	DIP TUBE
649	DISK, RUPTURE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

092	DISTRIBUTION, ELECTRICAL
899	DISTRIBUTION, CONTROL SYSTEM
644	DITCH
389	DIVERSION, BOX
983	DIVERSION, GATE/VALVE
304	DIVERTED
514	DIVISION (SRTC), TECHNICAL
558	DIVISION , CONSTRUCTION
684	DOE (ERDA)/SREL/FORESTRY/SUBCONTRACTOR/SALVAGE
956	DOMESTIC WATER
626	DOOR
302	DOORSTOP
665	DOWNTIME/REPAIR TIME
126	DRAIN
955	DRAWOFF/RECIRCULATION/SIDEWALL
443	DRIFT
550	DRILL/DRILLING
059	DROP LINE
205	DROPPED/FELL
505	DRUMS/CANS
681	DRYER
490	DUCT
107	DUMB WAITER/ELEVATOR
457	DUMPSTER
109	DUST
082	DUST BAG
080	DUST COLLECTION

E

911	EFFLUENT TREATMENT PLANT
224	ELECTRICAL, CONTACT
092	ELECTRICAL, DISTRIBUTION
475	ELECTRICAL, EQUIPMENT DAMAGED
218	ELECTRICAL, SHORT CIRCUIT
222	ELECTRICAL, BREAKERS
308	ELECTRICAL, TRANSFORMER
916	ELECTRICAL/INSTRUMENT, WASTE
428	ELEMENT HEATING/HEATER/STEAM TRACING
107	ELEVATOR/DUMBWAITER
105	ELUTION
147	EMBEDDED PIPE
098	EMERGENCY POWER
169	EMULSIFICATION
640	ENCASEMENT/JACKET
992	ENCLOSURE/DIKE/FENCE/BARRICADE
922	ENGINEERED BOX/SLEEVE/TUBE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

260	ENTRY, CLOSED VESSEL
414	ENTRY/EXIT OF MATERIAL, CABINET
689	ENVIRONMENTAL RELEASES
128	EQUIPMENT
048	EQUIPMENT CONTAMINATION, FACILITY OR
574	EQUIPMENT, BROKEN
475	EQUIPMENT, ELECTRICAL DAMAGED
981	EQUIPMENT, SAFETY
265	EQUIPMENT, SEALS
476	EQUIPMENT, TRANSPORTATION DAMAGED
684	ERDA (DOE) SREL/FORESTRY/SUBCONTRACTOR/SALVAGE
517	ERDA /STORES/SALVAGE/FORESTRY/SREL
991	EROSION
137	ERROR, CALCULATIONAL
003	ERROR, CHEMICAL ADDITION
895	ERROR, DESIGN/IMPROVEMENT
053	ERROR, OPERATING
872	ERROR, PERSONAL
052	ERROR, PIPING
001	ERROR TRANSFER
019	ERROR, VALVING
417	ERROR, WEIGHING
250	ERRORS
235	ERROR, SUPERVISOR
009	ERUCTION
285	EVACUATION
163	EVAPORATOR (GENERAL)
946	EVAPORATOR, BOTTOMS
715	EVAPORATOR CONDENSATE TRANSFER
797	EVAPORATOR ORGANIC
945	EVAPORATOR, OVERHEADS
772	EVAPORATOR, SLURRY MIX
732	EVAPORATOR 1
733	EVAPORATOR 2
714	EVAPORATOR TO TANK, TRANSFERS
864	EXCAVATION
918	EXCAVATION WASTE (Dirt, etc.)
544	EXCEEDED, LIMIT
518	EXCESSIVE SPEED
119	EXCHANGE COLUMNS ION/DEIONIZER
187	EXCHANGER, HEAT
776	EXHAUST STACK, BUILDING 291-S
114	EXHAUSTER
414	EXIT/ENTRY OF MATERIAL/CABINET
862	EXPANSION JOINT
012	EXPLOSION
754	EXPLOSIVE LIMIT ANALYZER, LOWER
056	EXPOSURE, PERSONAL

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

707 EYE WASH STATION

F

780 FACILITY BLDG. 430-S, ORGANIC WASTE STORAGE
048 FACILITY OR EQUIPMENT CONTAMINATION
857 FACILITY, DEWATERING
986 FACILITY, LATE WASH
964 FACILITY, SOLID WASTE DISPOSAL
206 FAILURE, MECHANICAL
020 FAILURE, VALVE
284 FALSE
639 FALSE ALARM
777 FAN HOUSE, BUILDING 292-S
093 FANS / BLOWER
532 FATALITIES
225 FAULTY COMPONENT
129 FAULTY /MALFUNCTION
933 FEED PUMP
856 FEED TANK
992 FENCE/BARRICADE/ENCLOSURE/DIKE
205 FELL/DROPPED
767 FIELD TERMINAL CABINET/JUNCTION BOX
907 FILL, SANITARY LAND FILL
281 OIL FILM
778 FILTER, BUILDING 294-S, SAND
638 FILTER, HEPA
199 FILTER, SAND
090 FILTER (GENERAL) / SCREENS/STRAINERS
076 FIRE
646 FIRE DETECTION EQUIPMENT
760 FITTINGS
875 FIXED CONTAMINATION
024 FLANGE/GASKET
444 FLASHER
983 FLOOD/DIVERSION/SLUICE, GATE/VALVE
161 FLOODED
043 FLOODING, COLUMN
853 FLOOR
214 FLOOR, HIT
215 FLOOR, HIT OTHER THAN
729 FLOW
096 FLOW CONTROL
659 FLOWMETER/ROTAMETER
692 FLUID, HYDRAULIC
503 FLUORINE COMPOUNDS
949 FLUSH / BLOWDOWN / UNPLUG

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

645	FLUSH WATER
021	FOAMING
684	FORESTRY / SREL / DOE (ERDA)/ SUBCONTRACTOR / SALVAGE
517	FORESTRY/STORES/SALVAGE/SREL/ERDA
808	FORMATION, SALT
786-901	FORMIC ACID
960	FORMIC ACID WASTE HEADER
529	FORK LIFT/MOTOR CRANE/TRACTOR
046	FOUR MILE CREEK
466	FRICTION
798	FRIT
779	FRIT & CHEMICAL STORAGE, BLDG. 422-S, BULK
042	FROZEN, ICE
230	FUEL
069	FUMES
221	FUNCTION, INADEQUATE
676	FUNNEL/HOPPER
102	FURNACE/OVEN
425	FURNACE, INDUCTION
422	FURNACE, VACUUM
761	FUSE

G

287	GAGE, INSTRUMENT
983	GATE, DIVERSION/FLOOD/SLUICE
157	GANG VALVE
920	GANG VALVE HOUSE
472	GAS
101	GAS, INERT
024	GASKET/FLANGE
468	GASOLINE
455	GEAR BOX/GEARS
455	GEARS/GEAR BOX
051	GEL, SILICA
492	GENERATOR/CHARGER
131	GENERATOR, MOTOR
818	GLASS
741	GLASS MELTER
262	GLASS, SIGHT
775	GLASS WASTE STORAGE BUILDING, 250-S
429	GLOVE CHANGE
111	GLOVES
463	GRASS
700	GREATER THAN 10 GALLONS
407	GRINDING/MACHINING
295	GROUND WATER

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

234 GROUND, BURIAL
619 GUIDE, RELEASE

H

673 HALON
403 WATER HAMMER
171 HAN
209 HAND TOOLS
690 HAZARDOUS CHEMICALS
927 HAZARDOUS METALS
840 HAZARDOUS/MIXED WASTE VAULT
832 HAZARDOUS WASTE, INTERIM STORAGE
909 HAZARDOUS WASTE
136 HEADER
960 HEADER, FORMIC ACID WASTE
958 HEADER, HOT DECON WASTE
961 HEADER, MERCURY TRANSFER
959 HEADER, WARM DECON WASTE
187 HEAT EXCHANGER/COOLER
170 HEAT, DECAY
456 HEAT, PROCESS
728 HEAT /TEMPERATURE
428 HEATER/HEATING ELEMENT/STEAM TRACING
132 HEATING COIL/VAPORIZER
668 HELIUM
638 HEPA FILTER
685 HIGHWAY 125
214 HIT FLOOR
215 HIT OTHER THAN FLOOR
270 HM ALARM
200 HOISTS/TRAVELING BRIDGE/TURNTABLES/CRANES
213 HOOK
676 HOPPER/FUNNEL
261 HOSE
777 HOUSE, BUILDING 292-S, FAN
145 HUMIDITY
936 HUMAN FACTORS
150 HUT
692 HYDRAULIC FLUID
118 HYDRAULIC SYSTEMS
198 HYDROGEN
753 HYDROGEN ANALYZER
889 HYDROTEST

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

I

042	ICE, FROZEN
244	IDENTIFICATION, FUEL
474	IGNITION SOURCE, MISC. OR UNKNOWN
300	IMPACT WRENCH
978	IMPELLER
249	IMPROPER PACKAGING
725	IMPROPER STORAGE
125	IMPURITIES
543	INADEQUATE
868	INADEQUATE COMMUNICATION
221	INADEQUATE FUNCTION
506	INADEQUATE MONITORING
395	INADEQUATE, PROCEDURE
535	INATTENTION,
807	INCELL, CRANE
693	INCINERATOR, BETA-GAMMA
235	INCOMPLETE JOB
237	INCORRECT POSITION
425	INDUCTION, FURNACE
836	INDUSTRIAL/CHEMICAL WASTE TREATMENT
937	INDUSTRIAL HYGIENE
101	INERT GAS
155	INGESTION/UPTAKE
156	INHALATION
478	INHALATION/UPTAKE
479	INJECTION/UPTAKE
077	INJURY
216	INJURY, POTENTIAL MAJOR
703	INSECT/ANIMAL/BIRD
238	INSECURE
718	INSIDE TANK, INSPECTION
551	INSPECTION
717	INSPECTION, ANNULUS
718	INSPECTION, INSIDE TANK
552	INSTALL/REPLACE/REMOVE
496	INSTRUMENT AIR
015	INSTRUMENT MALFUNCTION
287	INSTRUMENT, GAGE
559	INSTRUMENT, METEOROLOGICAL
906	INSTRUMENT/EQUIPMENT, WASTE ELECTRICAL
462	INSULATION/INSULATOR
767	INTER AREA HWE PUMP PIT, BLDG 641-G
545	INTERLOCK
985	INTEGRATOR/COUNTER/TIMER
834	INTERMEDIATE LEVEL WASTE
839	INTERMEDIATE LEVEL WASTE, NON TRITIUM VAULT

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

289 INVENTORY
194 IODINE
119 ION EXCHANGE COLUMN/DEIONIZER
716 IRREGULARITIES, PROCESS

J

530 JACK KNIFE
640 JACKET/ENCASEMENT
116 JACKET LEAK
217 JAMMED COMPONENT
017 JET
236 JOB, INCOMPLETE
862 JOINT, EXPANSION
917 JOB CONTROL WASTE
236 JOB, INCOMPLETE
767 JUNCTION BOX/FIELD TERMINAL CABINET
025 JUMPER

K

L

986 LATE WASH FACILITY
691 LAZY SUSAN
433 LEAK CHECK
014 LEAK, COIL/TUBE BUNDLE
888 LEAK, PIPE
931 LEAK DETECTION, SUMP/BOX/POTS
008 LEAKS
699 LESS THAN 10 GALLONS
500 LEVEL, LIQUID
181 LIFTING, BAIL
072 LIGHTNING
263 LIGHTS
754 LIMIT ANALYZER, LOWER EXPLOSIVE
544 LIMIT EXCEEDED
228 LIMIT SWITCH
142 LIMITS, TECHNICAL STANDARDS/OPERATING
059 LINE, DROP
494 LINER/LINING (COATING)
500 LIQUID, LEVEL
768 LOAD CENTER

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

525	LOAD, LOSS OF
087	LOCK, AIR
809	LOCK AND TAG VIOLATION
259	LOCKED OUT
418	LOCKS TRANSFER
519	LOCOMOTIVE
192	LOSS
525	LOSS OF LOAD
258	LOSS OF MATERIAL
773	LOW POINT PUMP PIT 511-S
994	LYSIMETER

M

407	MACHINING/GRINDING
706	MAGNET
847	MAINTENANCE/DECONTAMINATION CELL
454	MAINTENANCE OPERATION
900	MAINTENANCE PREDICTIVE
763	MAINTENANCE PREVENTATIVE
541	MAINTENANCE ROOM,
216	MAJOR INJURY
015	MALFUNCTION/INSTRUMENT
129	MALFUNCTION, FAULTY
627	MANIPULATOR
427	MASS SPECTROMETER
473	MATERIAL BURNED, MISC. OR UNKNOWN
258	MATERIAL LOST
414	MATERIAL, CABINET ENTRY/EXIT OF
467	MATERIAL, SMOKING
223	MATERIAL, UNKNOWN
219	MECHANICAL DAMAGE
206	MECHANICAL FAILURE
850	MELTER CELL
741	MELTER , GLASS
709	MERCURY
743	MERCURY PURIFICATION COLUMN
961	MERCURY TRANSFER HEADER
471	METAL
926	METAL, PROCESS SCRAP
927	METALS, HAZARDOUS (CD, PB, HG, AG, etc.)
559	METEOROLOGICAL INSTRUMENTS
445	METER
749	MICRO BIOLOGICALLY INDUCED CORROSION (MIC)
046	MILE CREEK, FOUR
474	MISC. OR UNKNOWN IGNITION SOURCE
473	MISC. OR UNKNOWN MATERIAL BURNED

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

538	MISLABELED
431	MISSILES
254	MISSING/UNAVAILABLE
229	MISSING, PROTECTIVE DEVICE
772	MIX EVAPORATOR, SLURRY
840	MIXED/HAZARDOUS WASTE VAULT
831	MIXED WASTE .TREATMENT AND STORAGE, INTERIM
737	MIXING, SALT/CEMENT
804	MONITOR, PERSONNEL CONTAMINATION
805	MONITOR, PERSONNEL RADIATION
450	MONITOR, NEUTRON
279	MONITOR, STACK
636	MONITOR, TREBLER
549	MONITORING
506	MONITORING, INADEQUATE
208	MONORAIL
066	MOTOR
625	MOTOR CONTROL CENTER
529	MOTOR CRANE/FORK LIFT/TRACTOR
131	MOTOR GENERATOR

N

682	NASAL, CONTAMINATION
041	NATURAL PHENOMENON
104	NEPTUNIUM
450	NEUTRON MONITOR
097	NIM
898	NITRATE, SODIUM
044	NITRIC ACID
897	NITRITE, SODIUM
758	NITROGEN
084	NOOTER
271	NOT LOCKED OUT OR TAGGED OUT
168	NOZZLE

O

071	OFF-GAS
186	OFF-SITE
929	OIL
281	OIL FILM
053	OPERATING ERROR
142	OPERATING LIMITS/TECHNICAL STANDARDS
880	OPERATIONS, CONDUCT OF
454	OPERATION, MAINTENANCE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

731	OPERATIONAL SAFETY REQUIREMENT / TECHNICAL SAFETY REQUIREMENT
301	OPTICS
039	ORGANIC
797	ORGANIC EVAPORATOR
835	ORGANIC, WASTE STORAGE
780	ORGANIC, WASTE STORAGE FACILITY BUILDING 430-S
813	OSMOSIS, REVERSE
734	OSR / TSR VIOLATION
259	OUT, LOCKED
178	OUT OF DATE
286	OUTAGE, POWER
196	OUTLET / WEIR
102	OVEN / FURNACE
013	OVERCONCENTRATION
002	OVERFLOW
212	OVERLOAD
528	OVERTURN
787	OXALIC ACID
698	OXYGEN ANALYZER
902	OXYGEN ANALYZER MOC

P

249	PACKAGING, IMPROPER
507	PACKAGING, PRIMARY
508	PACKAGING SECONDARY
951	PACKING / SEALS / CAULKING
179	PANEL BOARD / CONTROL ROOM / CONTROL BOARD
458	PAPER
251	PAPERS, SHIPPING
483	PAVEMENT
748	PERMIT VIOLATION
877	PERSONAL CLOTHING
872	PERSONAL ERROR
154	PERSONNEL
804	PERSONNEL CONTAMINATION MONITOR
298	PERSONNEL DIFFICULTY
805	PERSONNEL RADIATION MONITOR
635	PHA
041	PHENOMENON, NATURAL
159	PHONE, COMMUNICATION
165	PIPE
738	PIPE CUTTER
147	PIPE, EMBEDDED
888	PIPE LEAK
148	PIPE, RACK
052	PIPING, ERROR

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

771	PIPING TEMPORARY
802	PIT, AUXILIARY PUMP BUILDING 512-S
756	PIT, BUILDING 511-S PUMP
757	PIT, BUILDING 641-G PUMP
773	PIT, LOW POINT PUMP BUILDING 511-S
390	PITS, PUMP
984	PIT / BOX , VALVE
705	PLANT, AIR
464	PLASTIC
800	PLUG
801	PNEUMATIC CONVEYOR
791	PNEUMATIC TRANSFER
007	PLUGGAGE
193	PLUTONIUM
773	POINT PUMP PIT, LOW
237	POSITION, INCORRECT
410	POURING
931	POT, LEAK DETECTION
176	POT, SEAL
005	POTENTIAL CRITICALITY
216	POTENTIAL, MAJOR INJURY
426	POWDER
098	POWER EMERGENCY
286	POWER OUTAGE
793	POWER SUPPLY
814	PRECIPITATE
796	PRECIPITATE REACTOR
018	PRECIPITATION
493	PRECIPITATOR
736	PREMIX BLENDING SYSTEM
144	PRESSURE
628	PRESSURE, CASH COIL SYSTEM
759	PRESSURE, CONTROL
900	PREDICTIVE MAINTENANCE
763	PREVENTIVE MAINTENANCE
507	PRIMARY PACKAGING
782	PRIMARY SUBSTATION, BUILDING 951-S
965	PRINTER / SCANNER
912	PROBE, CONDUCTIVITY / SONIC / INTERFACE DETECTOR
498	PROBLEM, VISIBILITY
054	PROCEDURAL DIFFICULTY
030	PROCEDURE VIOLATION
395	PROCEDURE INADEQUATE
851	PROCESS CELL
764-935	PROCESS CHILLER
622	PROCESS AIR
967	PROCESS HAZARD
456	PROCESS HEAT

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

716	PROCESS IRREGULARITIES
036	PROCESS WATER
810	PROCESS CONTAMINATION MONITOR
811	PROCESS RADIATION MONITOR
697	PROGRAMMERS, COMBUSTION
079	PROTECTIVE CLOTHING
226	PROTECTIVE DEVICE ADDED
229	PROTECTIVE DEVICE MISSING
533	PULPWOOD TRUCK
085	PULVERIZER
091	PUMP
933	PUMP, FEED
906	PUMP HOUSE
756	PUMP PIT BUILDING 511-S
390	PUMP, PITS
265	PUMP SEALS
815	PUMP, SLURRY
892	PUMP, TANK
934	PUMP, TRANSFER
141	PUNCTURE
100	PURGING
743	PURIFICATION, MERCURY COLUMN

Q

723	QUALITY CONTROL
701	QUENCH, SPRAY / SPRAY / SPRAY CHAMBER
885	QUESTION, UNRESOLVED SAFETY

R

148	RACK PIPE
269	RACK STORAGE
106	RADIATION
805	RADIATION MONITOR, PERSONNEL
810	RADIATION MONITOR PROCESS
752	RADIOACTIVE
210	RAIL CAR / CASK CAR
629	RAIL / TRACK
297	RAILROAD
242	RAILROAD, RESPONSIBILITY
536	RAIN
520	RAN THROUGH, OFF
999	RBOF
055	RCA
004	REACTION, UNCONTROLLED

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

257	REACTOR DEPARTMENT
796	REACTOR PRECIPITATE
497	READOUT / RECORDER
827	RECEIVING TANK
955	RECIRCULATING / DRAWOFF / SIDE WALL
063	RECIRCULATING WATER
497	RECORDER / READOUT
819	RECYCLE
938	RECYCLE COLLECTION TANK
435	REEL TAPES
799	REFRACTORY
799	REFRIGERATION
446	REGULATOR
477	RELAY
619	RELEASE GUIDE
689	RELEASED, ENVIRONMENTAL
290	RELEASED
866	REMOVAL, WASTE
552	REMOVE/INSTALL/REPLACE(AND/OR)
430	REPLACEMENT, WORN
995	REPORT, SAFETY ANALYSIS
731	REQUIREMENT, OPERATIONAL SAFETY / TECHNICAL SAFETY
152	RESIN
448	RESISTOR
242	RESPONSIBILITY, RAILROAD
243	RESPONSIBILITY, SHIPPER
240	RESPONSIBILITY, SROO
241	RESPONSIBILITY, SRS
180	RETENTION BASIN
088	REVERSAL, AIR
813	REVERSE OSMOSIS
083	BLOW RING
556	RISER
510	ROAD BED (RR)
509	ROADWAY
675	ROBOT
852	ROOF
542	ROOM
541	ROOM, MAINTENANCE
179	ROOM / CONTROL / CONTROL PANEL / PANEL BOARD
659	ROTAMETER/FLOWMETER
510	RR (ROAD BED)
522	RR CROSSING
095	RUNS CREEK, THREE
649	RUPTURE DISK
283	RUPTURED
630	RUTHENIUM

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

S

660	SAFEGUARDS
995	SAFETY ANALYSIS REPORT (SAR)
981	SAFETY, EQUIPMENT
731	SAFETY, OPERATIONAL REQUIREMENTS / TECHNICAL REQUIREMENT
708	SAFETY SHOWER
731	SAFETY, TECHNICAL REQUIREMENT / OPERATIONAL REQUIREMENT
885	SAFETY, UNRESOLVED QUESTION
817	SALT
737	SALT-CEMENT MIXING
808	SALT, FORMATION
845	SALT, PROCESS CELL
620	SALVAGE YARD
684	SALVAGE / SREL / DOE (ERDA) / FORESTRY / STORES
849	SAMPLE , ANALYTICAL CELL
523	SAMPLES
120	SAMPLING
199	SAND FILTER
778	SAND FILTER , BUILDING 294-S
907	SANITARY LAND FILL
830	SANITARY WASTE
266	SATURATION
965	SCANNER / PRINTER
905	SCDHEC
121	SCRAP
926	SCRAP, PROCESS METAL
090	SCREENS / STRAINER / FILTERS (GENERAL)
086	SCREW CONVEYOR
634	SCRUBBER
176	SEAL POT
957	SEAL WATER
666	SEALER, BAG
951	SEALS / PACKING / CAULKING
265	SEALS EQUIPMENT
508	SECONDARY PACKING
747	SECURITY
256	SEDIMENTS
047	SEEPAGE BASIN
887	SEISMIC
303	SEGREGATED WATER
173	SEPARATOR
774	SERVICE BUILDING, BUILDING 210-S
671	SERVICES, WACKENHUT
057	SEWER
924	SHIELDING
243	SHIPPER, RESPONSIBILITY

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

239	SHIPPING CONTAINER
251	SHIPPING PAPERS
183	SHOP
218	SHORT CIRCUIT, ELECTRICAL
708	SHOWER, SAFETY
146	SHUTDOWN
955	SIDEWALL / RECIRCULATION / DRAWOFF
262	SIGHT GLASS
051	SILICA GEL
006	SIPHONING
531	SKID
548	SKIN CONTAMINATION
925	SKIP PAN
922	SLEEVE / BOX / TUBE, ENGINEERED
816	SLUDGE
740	SLUDGE RECEIPT AND ADJUSTMENT TANK
983	SLUICE / FLOOD / DIVERSION, GATE / VALVE
195	SLUGS
772	SLURRY MIX EVAPORATOR
815	SLURRY PUMP
876	SMEARABLE CONTAMINATION
762	SMOKE
467	SMOKING MATERIAL
204	SNATCHED
642	SODIUM
788	SODIUM HYDROXIDE
898	SODIUM NITRATE
897	SODIUM NITRATE
890	SODIUM TETRAPHENYLBORATE
950	SOIL/CLAY
952	SOLENOID
696	SOLID BURNING
465	SOLVENT
695	SOLVENT BURNING
912	SONIC / CONDUCTIVITY PROBE / INTERFACE DETECTOR
824	SOURCE CHECK
474	SOURCE, IGNITION, MISC. OR UNKNOWN
135	SPARGE
460	SPARKS
427	SPECTROMETER, MASS
518	SPEED, EXCESSIVE
089	SPILL
453	SPONTANEOUS COMBUSTION
944	SPECIFIC GRAVITY
701	SPRAY / QUENCH / SPRAY CHAMBER
701	SPRAY CHAMBER / SPRAY / SPRAY QUENCH
701	SPRAY QUENCH / SPRAY / SPRAY CHAMBER
684	SREL / STORES / SALVAGE / FORESTRY / ERDA

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

240	SROO, RESPONSIBILITY
241	SRS, RESPONSIBILITY
514	SRTC, (TECHNICAL DIVISION)
867	STABILIZATION
158	STACK
776	STACK, BUILDING 292-S. EXHAUST
279	STACK MONITOR
783	STAGING BUILDING, BLDG. 706-S, DCS
142	STANDARDS / OPERATING LIMITS / TECHNICAL
792	STANDBY
730	STARTUP
060	STEAM
766	STEAM COLLAPSE
175	STEAM TRAP
932	STEEL TAPE
416	STORAGE (IN CELL)
779	STORAGE BUILDING, BLDG. 422-S, BULK FRIT AND CHEMICAL
775	STORAGE BUILDING , BLDG. 250-S, GLASS WASTE
780	STORAGE FACILITY, BLDG. 430-S, ORGANIC WASTE
725	STORAGE, IMPROPER
269	STORAGE RACK
828	STORAGE TANK
517	STORES / SALVAGE / FORESTRY / SREL / ERDA
643	STORM WATER
090	STRAINER / FILTERS (GENERAL) / SCREENS
073	STRESS
795	STRIPPER COLUMN
939	STRUCTURES, SUPPORT ELECTRIC WIRE / STEAM HEADER
233	STRUCTURAL COMPONENT
405	STUCK
684	SUBCONTRACTOR / SREL / DOE (ERDA) /
782	SUBSTATION, BUILDING 951-S, PRIMARY
174	SUCKBACKS
032	SUMP
931	SUMP / BOX / POTS , LEAK DETECTION
896	SUPERNATE
235	SUPERVISOR, ERROR
793	SUPPLY, POWER
646	SUPPRESSION AND FIRE DETECTION
294	SURFACE WATER
881	SURGE TANK
193	SWITCH
942	SWITCH, AUTOMATIC TRANSFER
765	SWITCH OVER
228	SWITCH, LIMIT
628	SYSTEM, CASH COIL PRESSURE
806	SYSTEM, COMMUNICATION
941	SYSTEM, CONDENSATE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

899	SYSTEM, DISTRIBUTIVE CONTROL
736	SYSTEM, PREMIX BLENDING
547	SYSTEM, TRANSFER
118	SYSTEMS, HYDRAULIC

T

271	TAGGED OUT OR NOT LOCKED OUT
311	TANK 1
312	TANK 2
313	TANK 3
314	TANK 4
315	TANK 5
316	TANK 6
317	TANK 7
318	TANK 8
319	TANK 9
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342	TANK 32
343	TANK 33
344	TANK 34
345	TANK 35
346	TANK 36
347	TANK 37
348	TANK 38
349	TANK 39

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

350	TANK 40
351	TANK 41
352	TANK 42
353	TANK 43
354	TANK 44
355	TANK 45
356	TANK 46
357	TANK 47
358	TANK 48
359	TANK 49
360	TANK 50
361	TANK 51
362	TANK 52
363	TANK 53
364	TANK 54
365	TANK 55
366	TANK 56
367	TANK 57
368	TANK 58
369	TANK 59
370	TANK 60
963	TANK, ACID DRAIN CATCH
979	TANK, CATCH
855	TANK, CONDENSATE
940	TANK, DECONTAMINATION/TREATMENT, WASTE
856	TANK, FEED
962	TANK, FLOOR DRAIN CATCH
892	TANK, PUMP
827	TANK, RECEIVING
938	TANK, RECYCLE COLLECTION
828	TANK, STORAGE
881	TANK, SURGE
713	TANK TO EVAPORATOR, TRANSFERS
511	TANK TRAILER
826	TANK, TRANSFER
386	TANK, VENTILATION
883	TANK, WASTE
143	TANK / CONTAINER/VESSELS
435	TAPES, REEL
514	TECHNICAL DIVISION (SRTC)
142	TECHNICAL STANDARDS / OPERATING LIMITS
064	TEFLON
062	TEMPERATURE CONTROL
728	TEMPERATURE / HEAT
771	TEMPORARY PIPING
767	TERMINAL CABINET / JUNCTION BOX
553	TEST
074	THERMOCOUPLE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

026	THERMOHM
123	THERMOMETERS
537	THORIUM
095	THREE RUNS CREEK
512	TIE DOWN / CLOSURE
985	TIMER / COUNTER / INTEGRATOR
658	TOOL
209	TOOL, HAND
893	TORNADO
781	TOWER, BUILDING 981-S, COOLING
305	TOWER, COOLING
968	TOWER, DISTILLATION
629	TRACK / RAIL
529	TRACTOR / FORK LIFT / MOTOR CRANE
248	TRAILER
511	TRAILER, TANK
679	TRAINING
908	TRANSFER, CAR
669	TRANSFER, DEVICE
001	TRANSFER, ERROR
953	TRANSFER, INTER AREA
418	TRANSFER LOCKS
791	TRANSFER, PNEUMATIC
934	TRANSFER, PUMP
826	TRANSFER, TANK
547	TRANSFER, SYSTEM
710	TRANSFERS 221 TO 241
712	TRANSFERS , CONCENTRATE TRANSFER SYSTEM
711	TRANSFERS WITHIN 241
715	TRANSFERS, EVAPORATOR CONDENSATE
714	TRANSFERS, EVAPORATOR TO TANK
713	TRANSFER, TANK TO EVAPORATOR
308	TRANSFORMER, ELECTRICAL
197	TRANSPLUTONIUM
820	TRANSMITTER
476	TRANSPORTATION EQUIPMENT DAMAGED
812	TRANSPORTER
564	TRAP
175	TRAP, STEAM
200	TRAVELING BRIDGE/TURNTABLE/CRANE/HOISTS
784	TREATMENT, BUILDING 980-S, WATER AND CHEMICAL
836	TREATMENT, WASTE, CHEMICAL/INDUSTRIAL
838	TRENCH WASTE, INTERMEDIATE LEVEL/GLD
837	TRENCH WASTE, LOW LEVEL/ELLT
636	TREBLER MONITOR
527	TRITIUM / D20
449	TROUBLE LIGHT
424	TRUCK, CAR

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

533	TRUCK, PULPWOOD
833	TRU WASTE, INTERIM STORAGE/WCF
203	TRUNIONS
624	TUBE, DIP
922	TUBE/BOX/SLEEVE, ENGINEERED
296	TUNNEL
280	TURBIDITY
200	TURNTABLE/CRANE/HOIST/TRAVELING BRIDGE
720	TV CAMERA

U

255	UNAUTHORIZED
724	UNAUTHORIZED CONTAINER
254	UNAVAILABLE/MISSING
004	UNCONTROLLED REACTION
162	UNDERGROUND
687	UNINTENTIONAL BURIAL
739	UNINTERRUPTIBLE POWER SUPPLY (UPS)
223	UNKNOWN MATERIAL
949	UNPLUG / BLOWDOWN / FLUSH
739	UPS , (UNINTERRUPTIBLE POWER SUPPLY
683	UPTAKE/ABSORPTION
155	UPTAKE/INGESTION
478	UPTAKE/INHALATION
479	UPTAKE/INJECTION
038	URANIUM

V

070	VACUUM
422	VACUUM, FURNACE
989	VEGETATION/ALGAE
149	VALENCE ADJUSTMENT
983	VALVE, DIVERSION/FLOOD/SLUICE, GATE
020	VALVE, FAILURE
157	VALVE, GANG
984	VALVE, PIT/BOX
019	VALVING ERROR
132	VAPORIZER / HEATING COIL
555	VAULT
840	VAULT, HAZARDOUS/MIXED, WASTE
839	VAULT, INTERMEDIATE NON TRITIUM WASTE
842	VAULT, INTERMEDIATE WITH TRITIUM WASTE
841	VAULT, LOW LEVEL WASTE
843	VAULT, LONG LIVED WASTE

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

127	VENDOR
910	VENT. VESSEL
292	VENTILATION
919	VENTILATION, EQUIPMENT WASTE
387	VENTILATION, ANNULUS
386	VENTILATION, TANK
260	VESSEL ENTRY, CLOSED
143	VESSEL / TANK / CONTAINER
480	VIBRATION
539	VIBRATOR
809	VIOLATION, LOCK AND TAG
734	VIOLATION, OSR
748	VIOLATION, PERMIT
030	VIOLATION, PROCEDURE
498	VISIBILITY PROBLEMS

W

854	WALL
671	WACKENHUT SERVICES
707	WASH STATION, EYE
299	WASHER
276	WASTE
277	WASTE, CELL
836	WASTE, CHEMICAL/INDUSTRIAL , TREATMENT
833	WASTE CERTIFICATION FACILITY/ INTERIM TRU WASTE STORAGE
726	WASTE, COMPACTOR
916	WASTE, ELECTRICAL/INSTRUMENT, EQUIPMENT
918	WASTE, EXCAVATION (DIRT, ASPHALT, etc.)
909	WASTE, HAZARDOUS
977	WASTE, HIGH LEVEL TRENCH
838	WASTE, INTERMEDIATE LEVEL TRENCH / GCD
839	WASTE, INTERMEDIATE LEVEL NON TRITIUM VAULT
842	WASTE, INTERMEDIATE LEVEL WITH TRITIUM VAULT
832	WASTE, INTERIM HAZARDOUS STORAGE
833	WASTE, INTERIM TRU, STORAGE/WASTE CERTIFICATION FACILITY
831	WASTE, INTERIM MIXED, TREATMENT/STORAGE
917	WASTE, JOB CONTROL
837	WASTE, LOW LEVEL TRENCH / ELLT
841	WASTE, LOW LEVEL VAULT
843	WASTE, LONG LIVED VAULT
913	WASTE, MIXED
866	WASTE, REMOVAL
830	WASTE, SANITARY
964	WASTE, SOLID DISPOSAL FACILITY
775	WASTE, STORAGE BUILDING, 250-S, GLASS
780	WASTE, STORAGE FACILITY, BLDG. 430-S, ORGANIC

TABLE 6
EQUIPMENT CODES (CONT'D)
(Alphabetical Order)

784	WASTE, TREATMENT, BLDG. 980-S, WATER AND CHEMICAL
835	WASTE, STORAGE ORGANIC
914	WASTE, TRU
915	WASTE, PROCESS (PIPE, VALVES, JUMPERS, JETS, ETC.)
919	WASTE, VENTILATION EQUIPMENT (FILTERS, ETC.)\
264	WATER
784	WATER / CHEMICAL WASTE TREATMENT BLDG. 980-S
821	WATER, CHILLED
870	WATER, CHROMATED
956	WATER, DOMESTIC
645	WATER, FLUSH
295	WATER, GROUND
403	WATER, HAMMER
036	WATER, PROCESS
063	WATER, RECALCULATING
303	WATER, SEGREGATED
957	WATER, SEAL
643	WATER, STORM
294	WATER, SURFACE
727	WATER, WELL
417	WEIGHING ERROR
196	WEIR/OUTLET
075	WELD
848	WELD, CELL
789	WELDER
412	WELDING
727	WELL, WATER
489	WELLS
631	WIND
451	WINDOW
201	WIRING /CORDS/CABLE
469	WOOD
823	WORK ORDER DEFICIENCY
430	WORN REPLACEMENT
300	WRENCH, IMPACT

X

Y

620	YARD, SALVAGE
211	YOKE

Z

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

001	TRANSFER ERROR
002	OVERFLOW
003	CHEMICAL ADDITION ERROR
004	UNCONTROLLED REACTION
005	CRITICALITY POTENTIAL
006	SIPHONING
007	PLUGGAGE
008	LEAKS
009	ERUCTION
010	BOILOVER
011	BOILOFF
012	EXPLOSION
013	OVER CONCENTRATION
014	COIL LEAK/TUBE BUNDLE LEAK
015	INSTRUMENT MALFUNCTION
016	CORROSION
017	JET
018	PRECIPITATION
019	VALVING ERROR
020	VALVE FAILURE
021	FOAMING
023	DEMISTER
024	FLANGE/GASKET
025	JUMPER
026	THERMOHM
030	PROCEDURAL VIOLATION
032	SUMP
034	CONDENSER
036	PROCESS WATER
037	ACTIVITY
038	URANIUM
039	ORGANIC
041	NATURAL PHENOMENON
042	ICE/FROZEN
043	COLUMN FLOODING
044	NITRIC ACID
045	COOLING WATER
046	FOUR MILE CREEK
047	SEEPAGE BASIN
048	CONTAMINATION, FACILITY OR EQUIPMENT
049	ACID ABSORBER
050	BREAKTHROUGH
051	SILICA GEL
052	PIPING ERROR
053	OPERATING ERROR
054	PROCEDURAL DIFFICULTY
055	RCA
056	PERSONAL EXPOSURE

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

057	SEWER
058	DESIGN
059	DROP LINE
060	STEAM
062	TEMPERATURE CONTROL
063	RECIRCULATING WATER
064	TEFLON
065	CHIPPED, CRACKS, CRACKING
066	MOTOR
068	AGITATOR
069	FUMES
070	VACUUM
071	OFF-GAS
072	LIGHTNING
073	STRESS
074	THERMOCOUPLE
075	WELD
076	FIRE
077	INJURY
079	PROTECTIVE CLOTHING
080	COLLECTION, DUST
082	DUST BAG
083	BLOW RING
084	NOOTER
085	PULVERIZER
086	SCREW CONVEYOR
087	AIR LOCK
088	AIR REVERSAL
089	SPILL
090	FILTERS (GENERAL), SCREENS, STRAINER
091	PUMP
092	ELECTRICAL DISTRIBUTION
093	BLOWER/FANS
095	THREE RUNS CREEK
096	FLOW CONTROL
097	NIM
098	EMERGENCY POWER
100	PURGING
101	INERT GAS
102	FURNACE/OVEN
103	PLUTONIUM
104	NEPTUNIUM
105	ELUTION
106	RADIATION
107	ELEVATOR/DUMBWAITER
109	DUST
110	COMPRESSOR
111	GLOVES

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

112	DEFORMATION
114	EXHAUSTER
115	DECOMPOSITION/DECAY
116	JACKET LEAK
117	CRUCIBLE
118	HYDRAULIC SYSTEMS
119	DEIONIZER, ION EXCHANGE COLUMNS
120	SAMPLING
121	SCRAP
123	THERMOMETERS
124	ANALYTICAL
125	IMPURITIES
126	DRAIN
127	VENDOR
128	EQUIPMENT
129	MALFUNCTION/FAULTY
130	ACCOUNTABILITY
131	MOTOR GENERATOR
132	HEATING COIL/VAPORIZER
133	CAUSTIC ALKALI
135	SPARGE
136	HEADER
137	CALCULATIONAL ERROR
138	BLANK
141	PUNCTURE
142	TECHNICAL STANDARDS/OPERATING LIMITS
143	VESSEL/TANK/CONTAINER
144	PRESSURE
145	HUMIDITY
146	SHUTDOWN
147	EMBEDDED PIPE
148	RACK PIPE
149	VALENCE ADJUSTMENT
150	HUT
151	BREATHING AIR
152	RESIN
153	CONTAMINATION, AIRBORNE
154	PERSONNEL
155	UPTAKE/INGESTION
156	INHALATION
157	GANG VALVE
158	STACK
159	COMMUNICATIONS, PHONE
161	FLOODED
162	UNDERGROUND
163	EVAPORATOR (GENERAL)
164	DECANT
165	PIPE

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

166	BAG
167	COOLING COIL
168	NOZZLE
169	EMULSIFICATION
170	DECAY HEAT
171	HAN
172	CELL COVER
173	SEPARATOR
174	SUCK BACKS
175	STEAM TRAP
176	SEAL POT
178	OUT OF DATE
179	CONTROL ROOM/CONTROL BOARD/PANEL BOARD
180	RETENTION BASIN
181	LIFTING BAIL
182	DECON CELL
183	SHOP
184	MIXER-SETTLER/BANK
186	OFF-SITE
187	HEAT EXCHANGER/COOLER
188	CATALYST
192	LOSS
193	SWITCH
194	IODINE
195	SLUGS
196	OUTLET/WEIR
197	TRANSPLUTONIUM
198	HYDROGEN
199	SAND FILTER
200	CRANES, HOISTS, TRAVELING BRIDGE, TURNABLES
201	CABLES/WIRING/CORDS
202	ALIGNMENT
203	TRUNIONS
204	SNATCHED
205	DROPPED/FELL
206	MECHANICAL FAILURE
207	CASK
208	MONORAIL
209	HAND TOOLS
210	CASK CAR/RAIL CAR/FLAT CAR
211	YOKE/GRAPPLE
212	OVERLOAD
213	HOOK
214	HIT FLOOR
215	HIT OTHER THAN FLOOR
216	POTENTIAL MAJOR INJURY
217	JAMMED COMPONENT
218	SHORT CIRCUIT, ELECTRICAL

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

219	MECHANICAL DAMAGE
221	INADEQUATE FUNCTION
222	BREAKER
223	UNKNOWN MATERIAL
224	ELECTRICAL CONTACT
225	FAULTY COMPONENT
226	PROTECTIVE DEVICE
227	BRAKE
228	LIMIT SWITCH
229	PROTECTIVE DEVICE MISSING
230	FUEL
231	BROKEN/DAMAGED
232	BUNDLE/TUBE BUNDLE
233	STRUCTURAL COMPONENT
234	BURIAL GROUND
235	SUPERVISOR ERROR
236	INCOMPLETE JOB
237	INCORRECT POSITION
238	INSECURE
239	SHIPPING CONTAINER
240	RESPONSIBILITY, SROO
241	RESPONSIBILITY, SRP
242	RESPONSIBILITY, RAILROAD
243	RESPONSIBILITY, SHIPPER
245	CAME APART
248	TRAILER
249	IMPROPER PACKAGING
250	ERRORS
251	SHIPPING PAPERS
252	DIMENSIONS
254	MISSING / UNAVAILABLE
255	UNAUTHORIZED
256	SEDIMENTS
257	REACTOR DEPARTMENT
258	MATERIAL LOST
259	LOCKED OUT
260	CLOSED VESSEL ENTRY
261	HOSE
262	SIGHT GLASS
263	LIGHTS
264	WATER
265	EQUIPMENT SEALS
266	SATURATION
269	STORAGE RACK
270	HM ALARM
271	NOT LOCKED OUT OR TAGGED OUT
273	BAND SAW
276	WASTE

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

277	WASTE CELL
279	STACK MONITOR
280	TURBIDITY
281	OIL FILM
282	ALARM/HORN
283	RUPTURED
284	FALSE
285	EVACUATION
286	POWER OUTAGE
287	GAGE, INSTRUMENT
289	INVENTORY
290	RELEASED
291	CUTTING
292	VENTILATION
294	SURFACE WATER
295	GROUND WATER
296	TUNNEL
297	RAILROAD
298	PERSONNEL DIFFICULTY
299	WASHER
300	IMPACT WRENCH
301	OPTICS
302	DOORSTOP
303	SEGREGATED WATER
304	DIVERTED
305	COOLING TOWER
306	DELAYING BASIN
308	TRANSFORMER, ELECTRICAL
309	DERAIL
311	TANK 1
312	TANK 2
313	TANK 3
314	TANK 4
315	TANK 5
316	TANK 6
317	TANK 7
318	TANK 8
319	TANK 9
320	TANK 10
321	TANK 11
322	TANK 12
323	TANK 13
324	TANK 14
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328	TANK 18
329	TANK 19

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

330	TANK 20
331	TANK 21
332	TANK 22
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352	TANK 42
353	TANK 43
354	TANK 44
355	TANK 45
356	TANK 46
357	TANK 47
358	TANK 48
359	TANK 49
360	TANK 50
361	TANK 51
362	TANK 52
386	VENTILATION: TANK
387	VENTILATION: ANNULUS
389	DIVERSION BOX
390	PUMP PITS
395	PROCEDURE, INADEQUATE
401	COAL
402	BOILER
403	WATER HAMMER
404	BUCKET/CLAM SHELL
405	STUCK
407	MACHINING/GRINDING
410	POURING
412	WELDING
414	CABINET ENTRY/ EXIT OF MATERIAL
415	DECONTAMINATION

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

416	STORAGE (IN CELL)
417	WEIGHING ERROR
418	TRANSFER LOCKS
419	DIES
422	FURNACE, VACUUM
425	FURNACE, INDUCTION
426	POWDER
427	MASS SPECTROMETER
428	HEATER/ HEATING ELEMENT/STEAM TRACING
429	GLOVE CHANGE
430	WORN REPLACEMENT
431	MISSILES
432	REPAIR
433	LEAK CHECK
435	REEL TAPES
436	ANNULUS
438	BATTERY
439	BELL
440	CALIBRATION
441	CHAMBER
442	DIODE
443	DRIFT
444	FLASHER
445	METER
446	REGULATOR
447	RELAY
448	RESISTOR
449	TROUBLE ALARM
450	NEUTRON MONITOR
451	WINDOW
452	CHLORIDES
453	SPONTANEOUS COMBUSTION
454	MAINTENANCE OPERATION
455	GEAR BOX/GEARS
456	PROCESS HEAT
457	DUMPSTER
458	PAPER
459	CLOTH/CANVAS
460	SPARKS
462	INSULATION/INSULATOR
463	GRASS
464	PLASTIC
465	SOLVENT
466	FRICTION
467	SMOKING MATERIAL
468	GASOLINE
469	WOOD
470	DIESEL

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

471	METAL
472	GAS
473	MISC. OR UNKNOWN MAT'L BURNED
474	MISC. OR UNKNOWN IGNITION SOURCE
475	ELECTRICAL EQUIPMENT DAMAGED
476	TRANSPORTATION EQUIPMENT DAMAGED
477	REFRIGERATION
478	UPTAKE/INHALATION
479	UPTAKE/INJECTION
480	VIBRATION
481	COMPUTER
482	COMPRESSED AIR
483	PAVEMENT
484	GRATE
485	REFRACTORY
486	COAL HANDLING EQUIPMENT
489	WELLS
490	DUCT
491	BALANCE
492	GENERATOR/CHARGER
493	PRECIPITATOR
494	COATING (LINING)/LINER
496	INSTRUMENT AIR
497	RECORDER/READOUT
498	VISIBILITY PROBLEM
500	LIQUID LEVEL
501	BEARINGS,
502	AMMONIA COMPOUNDS
503	FLUORINE COMPOUNDS
504	COLLISION
505	DRUMS, CANS
506	INADEQUATE MONITORING
507	PRIMARY PACKAGING
508	SECONDARY PACKAGING
509	ROADWAY
510	ROAD BED (RR)
511	TANK TRAILER
512	TIE DOWN/ CLOSURE
513	CHOCKS
514	TECHNICAL DIVISION (SRTC)
517	STORES, SALVAGE, FORESTRY, SREL, ERDA
518	EXCESSIVE SPEED
519	LOCOMOTIVE
520	RAN THROUGH, OFF
521	DEBRIS
522	RR CROSSING
523	SAMPLES
524	TRUCK, CAR

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

525	LOSS OF LOAD
527	TRITIUM, D2O
528	OVERTURN
529	FORK LIFT/MOTOR CRANE/TRACTOR/LIFT TRUCK
530	JACK KNIFE
531	SKID
532	FATALITIES
533	PULPWOOD TRUCK
535	INATTENTION, BLACKOUT
536	RAIN
537	THORIUM
538	MISLABELED
539	VIBRATOR
541	MAINTENANCE ROOM
542	ROOM
543	INADEQUATE
544	LIMIT EXCEEDED
545	INTERLOCK
546	TRAP
547	TRANSFER SYSTEM
548	CONTAMINATION, SKIN
549	MONITORING
550	DRILL/DRILLING
551	INSPECTION
552	INSTALL, REPLACE (AND/OR REMOVE)
553	TEST
554	AMERICIUM
555	VAULT
556	RISER
558	CONSTRUCTION DIVISION
559	METEOROLOGICAL INSTRUMENTS
574	BROKEN, EQUIPMENT
582	BIOASSAY AND/OR CHEST COUNT
619	RELEASE GUIDE
620	SALVAGE YARD
622	AIR, PROCESS
623	DAMPER
624	DIP TUBE
625	MOTOR CONTROL CENTER
626	DOOR
627	MANIPULATOR
628	CASH COIL PRESSURE SYSTEM
629	RAIL/TRACK
630	RUTHENIUM
631	WIND
632	DEHUMIDIFIER
633	CONCRETE
634	SCRUBBER

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

635	PHA
636	TREBLER MONITOR
638	HEPA FILTER
639	FALSE ALARM
640	ENCASEMENT/JACKET
642	SODIUM
643	STORM WATER
644	DITCH
645	FLUSH WATER
646	FIRE DETECTION AND SUPPRESSION
648	CART
649	RUPTURE DISK
658	TOOL
659	ROTAMETER/FLOWMETER
660	SAFEGUARDS
665	DOWNTIME/REPAIR TIME
668	HELIUM
669	TRANSFER DEVICE
670	ARGON
671	WACKENHUT SERVICES
672	CONTAMINATION, CLOTHING
673	HALON
675	ROBOT
676	FUNNEL/HOPPER
679	TRAINING
680	CONTROLLER
681	DRYER
682	CONTAMINATION, NASAL
683	UPTAKE/ABSORPTION
684	SREL, DOE (ERDA), FORESTRY, SUBCONTRACTOR, SALVAGE
685	HIGHWAY 125
686	AIRCRAFT
687	UNINTENTIONAL BURIAL
689	ENVIRONMENTAL RELEASE
690	HAZARDOUS CHEMICALS
691	LAZY SUSAN
692	HYDRAULIC FLUID
693	BETA-GAMMA INCINERATOR
694	BURNER
695	SOLVENT BURNING
696	SOLID BURNING
697	COMBUSTION PROGRAMMERS
698	OXYGEN ANALYZER
699	LESS THAN 10 GALLONS
700	GREATER THAN 10 GALLONS
701	SPRAY QUENCH/SPRAY/SPRAY CHAMBER
702	ASH BUILDUP
703	ANIMAL/INSECT/BIRD

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

705	AIR, PLANT
706	MAGNET
707	EYE WASH STATION
708	SAFETY SHOWER
709	MERCURY
710	TRANSFERS 221 TO 241
711	TRANSFERS WITHIN 241
712	TRANSFERS: CONCENTRATE TRANSFER SYSTEM
713	TRANSFERS: TANK TO EVAPORATOR
714	TRANSFERS: EVAPORATOR TO TANK
715	TRANSFERS: EVAPORATOR TO CONDENSATE
716	PROCESS IRREGULARITIES
717	INSPECTION: ANNULUS
718	INSPECTION: INSIDE TANK
719	CTS
720	TV CAMERA
723	QUALITY CONTROL
724	CONTAINER, UNAUTHORIZED
725	IMPROPER STORAGE
726	COMPACTOR, WASTE
727	WELL WATER
728	HEAT/TEMPERATURE
729	FLOW
730	STARTUP
731	OPERATIONAL SAFETY REQUIREMENT/TECH. SAFETY REQUIREMENT
732	TANK FARM EVAPORATOR 1
733	TANK FARM EVAPORATOR 2
734	OSR VIOLATION
736	PREMIX BLENDING SYSTEM
737	SALT-CEMENT MIXING
738	PIPE CUTTER
739	UNINTERRUPTIBLE POWER SUPPLY(UPS)
740	SLUDGE RECEIPT AND ADJUSTMENT TANK
741	GLASS MELTER
742	CANISTER
743	MERCURY PURIFICATION COLUMN
746	B-25 CONTAINERS
747	SECURITY
748	PERMIT VIOLATION
749	MICRO BIOLOGICALLY INDUCED CORROSION (MIC).
750	B12
751	CONTAMINATION
752	RADIOACTIVE
753	HYDROGEN ANALYZER
754	LOWER EXPLOSIVE LIMIT ANALYZER
755	ACCEPTANCE CRITERIA
756/773	BUILDING 511-S PUMP PIT
757	BUILDING 641-G IAL PUMP PIT

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

758	NITROGEN
759	PRESSURE CONTROL
760	FITTINGS
761	FUSE
762	SMOKE
763	PREVENTIVE MAINTENANCE
764-935	PROCESS CHILLER
765	SWITCHOVER
766	STEAM COLLAPSE
767	FIELD TERMINAL CABINET/JUNCTION BOX
768	LOAD CENTER
769	DIGGING
770	COLLECTION TANK
771	TEMPORARY PIPING
772	SLURRY MIX EVAPORATOR
773/756	LOW POINT PUMP PIT-511S
774	SERVICE BUILDING, BUILDING 210S
775	GLASS WASTE STORAGE BUILDING, BUILDING 250S
776	EXHAUST STACK, BUILDING 291S
777	FAN HOUSE, BUILDING 292S
778	SAND FILTER, BUILDING 294S
779	BULK FRIT & CHEMICAL STORAGE, BLDG. 422S
780	ORGANIC WASTE STORAGE FACILITY, BLDG. 430S
781	COOLING TOWER, BUILDING 981S
782	PRIMARY SUBSTATION, BUILDING 951S
783	DCS STAGING BUILDING 706-S
784	WATER & CHEMICAL WASTE TREATMENT, BLDG. 980S
785	BENZENE
786-901	FORMIC ACID
787	OXALIC ACID
788	SODIUM HYDROXIDE
789	WELDER
790	CONVEYOR
791	PNEUMATIC TRANSFER
792	STANDBY
793	POWER SUPPLY
794	DECANTER
795	STRIPPER COLUMN
796	PRECIPITATE REACTOR
797	ORGANIC EVAPORATOR
798	FRIT
799	REFRACTORY
800	PLUG
801	PNEUMATIC CONVEYOR
802	AUXILIARY PUMP PIT(LATE WASH FACILITY)
803	PROGRAM ERROR, COMPUTER
804	PERSONNEL CONTAMINATION MONITOR
805	PERSONNEL RADIATION MONITOR

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

806	COMMUNICATION SYSTEMS
807	INCELL CRANE
808	SALT FORMATION
809	LOCK AND TAG VIOLATION
810	PROCESS RADIATION MONITOR (VAMPS, etc)
811	PROCESS CONTAMINATION MONITOR (STORM WATER, TREBLER, CAM, etc.)
812	TRANSPORTER
813	REVERSE OSMOSIS
814	PRECIPITATE
815	SLURRY PUMP
816	SLUDGE
817	SALT
818	GLASS
819	RECYCLE
820	TRANSMITTER
821	CHILLED WATER
822	INADEQUATE ADMINISTRATIVE CONTROL
823	WORK ORDER DEFICIENCY
824	SOURCE CHECK
825	COLD FEED PREP
826	TRANSFER TANK
827	RECEIVING TANK
828	STORAGE TANK
829	LOW LEVEL WASTE
830	SANITARY WASTE
831	INTERIM MIXED WASTE TREATMENT AND STORAGE
832	INTERIM HAZARDOUS WASTE STORAGE
833	INTERIM TRU WASTE STORAGE/WCF
834	INTERMEDIATE LEVEL WASTE
835	ORGANIC WASTE STORAGE
836	CHEMICAL/INDUSTRIAL WASTE TREATMENT
837	LOW LEVEL WASTE TRENCH /ELLT
838	INTERMEDIATE LEVEL WASTE TRENCH/GCD
839	INTERMEDIATE LEVEL WASTE NON TRITIUM VAULT
840	HAZARDOUS /MIXED WASTE VAULT
841	LOW LEVEL WASTE VAULT
842	INTERMEDIATE LEVEL WASTE WITH TRITIUM VAULT
843	LONG LIVED WASTE VAULT
844	CHEMICAL PROCESS CELL
845	SALT PROCESS CELL
846	CANISTER DECONTAMINATION CELL
847	CONTACT DECONTAMINATION AND MAINTENANCE CELL
848	WELD CELL
849	SAMPLE AND ANALYTICAL CELL
850	MELTER CELL
851	PROCESS CELL
852	ROOF

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

853	FLOOR
854	WALL
855	CONDENSATE TANK
856	FEED TANK
857	DEWATERING FACILITY
860	BUILDING 299-H
862	EXPANSION JOINT
863	CAPPING
864	EXCAVATION
865	CLOSURE
866	WASTE REMOVAL
867	STABILIZATION
868	INADEQUATE COMMUNICATION
869	ITP FILTER BUILDING 241-96H
870	CHROMATED WATER
871	CARDS/MODULES/BOARDS
872	PERSONNEL ERROR
873	PROGRAMMABLE LOGIC CONTROLLER (PLC)
875	FIXED CONTAMINATION
876	SMEARABLE CONTAMINATION
877	PERSONAL CLOTHING/EFFECTS, CONTAMINATION
880	CONDUCT OF OPERATIONS
881	SURGE TANK
882	BENZENE ANALYZER
883	WASTE TANK
884	DEFLAGRATION
885	UN REVIEWED SAFETY QUESTION
886	CESIUM REMOVAL COLUMN
887	SEISMIC
888	PIPE LEAK
889	HYDROTEST
890	SODIUM TETRAPHENYLBORATE
892	PUMP TANK
893	TORNADO
895	DESIGN ERROR/DESIGN IMPROVEMENT
896	SUPERNATE
897	SODIUM NITRITE
898	SODIUM NITRATE
899	DISTRIBUTIVE CONTROL SYSTEM
900	PREDICTIVE MAINTENANCE
901-786	FORMIC ACID
902	MINIMUM OXYGEN FOR COMBUSTION ANALYZER (MOC)
903	VITRIFICATION BUILDING 221S
904	CARBON DIOXIDE
905	SCDHEC
906	PUMP HOUSE
907	SANITARY LAND FILL
908	TRANSFER CAR

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

909	HAZARDOUS WASTE
910	VESSEL VENT
911	EFFLUENT TREATMENT FACILITY
912	CONDUCTIVITY PROBE/SONIC PROBES/INTERFACE DETECTOR
913	MIXED WASTE
914	TRU WASTE
915	WASTE-PROCESS (PIPING, VALVES, JUMPERS, JETS, PUMPS)
916	WASTE-ELECTRICAL-INSTRUMENT EQUIPMENT
917	WASTE-JOB CONTROL
918	WASTE-EXCAVATION(DIRT, ASPHALT, etc.)
919	WASTE-VENTILATION EQUIPMENT (FILTER, etc)
920	GANG VALVE HOUSE
922	SPECIAL ENGINEERED BOX, SLEEVE, TUBE etc.
923	BECHTEL
924	SHIELDING
925	SKIP PAN
926	SCRAP, PROCESS METAL
927	HAZARDOUS METALS (CD, PB, HG, AG)
928	OIL
929	CONNECTOR
930	AMPLIFIER
931	LEAK DETECTION BOX/SUMP/POTS
932	STEEL TAPE
933	FEED PUMP
934	TRANSFER PUMP
935-764	PROCESS CHILLERS
936	HUMAN FACTORS
937	INDUSTRIAL HYGIENE
938	RECYCLE COLLECTION TANK
939	ELECTRICAL WIRE SUPPORT STRUCTURE/STEAM HEADER SUPPORT STRUCTURE
940	DECONTAMINATION WASTE TREATMENT TANK
941	CONDENSATE SYSTEM
942	AUTOMATIC TRANSFER SWITCH
943	CAPACITOR
944	SPECIFIC GRAVITY
945	EVAPORATOR-OVERHEAD
946	EVAPORATOR-BOTTOM
947	EVAPORATOR BOTTOM PUMP TANK
948	CTS-LOOP LINE
949	BLOWDOWN/UNPLUG/FLUSH
950	SOIL/CLAY
951	SEALS/PACKING/CAULKING
952	SOLENOID
953	TRANSFER-INTER AREA
954	DESALT/DESCALE
955	DRAWOFF/RECIRCULATING/SIDE WALL
956	DOMESTIC WATER

TABLE 7
EQUIPMENT CODES
(NUMERICAL ORDER)

957	SEAL WATER
958	HOT DECONTAMINATION WASTE HEADER
959	WARM DECONTAMINATION WASTE HEADER
960	FORMIC ACID WASTE HEADER
961	MERCURY TRANSFER HEADER
962	FLOOR DRAIN CATCH TANK
963	ACID DRAIN CATCH TANK
964	SOLID WASTE DISPOSAL FACILITY
965	PRINTER/SCANNER
966	CIRCUIT
967	PROCESS HAZARD
968	DISTILLATION TOWER
977	HIGH LEVEL WASTE TRENCH
978	IMPELLER
979	CATCH TANK
980	BELT
981	SAFETY EQUIPMENT
982	210 Z BUILDING
983	DIVERSION/FLOOD/SLUICE, GATE/VALVE
984	VALVE PIT/BOX
985	TIMER/COUNTER/INTEGRATOR
986	LATE WASH FACILITY
988	AIR CONDITION
989	VEGETATION/ALGAE
990	INTERMEDIATE ABOVE GROUND STORAGE
991	EROSION
992	BARRICADE/FENCE/ENCLOSURE/DIKE
993	DETECTOR
994	LYSIMETER
995	SAFETY ANALYSIS REPORT(SAR)
996	DIAPHRAGM
997	DEMOLITION/DECOMMISSION
998	ASBESTOS
999	RBOF

TABLE 8
EQUIPMENT CODE
(CATEGORY ORDER INDEX)

1. ADMINISTRATIVE

- Plant Organizations Terms
- Emergency Response/Criticality Terms
- Procedure Terms
- Human Factor Terms
- Vendor Related Terms

2. CONTAINERS: SHIPPING AND STORAGE

- Generic Terms
- Defined Terms

3. COMMUNICATION

4. ELECTRICAL

- Generic Terms
- Defined Terms
 - Emergency Power Terms
 - Equipment Terms

5. ENVIRONMENTAL

- Generic Terms
- Defined Terms
 - Air/Effluent Monitor Systems Terms
 - Environmental Releases Terms

6. ERRORS/FAILURES/ROOT CAUSES

- Generic Terms
- Defined Terms

7. FIRE

- Generic Terms-General
- Generic Terms-Combustible Types

TABLE 8

**EQUIPMENT CODE(cont'd)
(CATEGORY ORDER INDEX)**

8. GENERIC TERMS-GENERAL

- Action Terms
- Equipment Terms
- Material Terms
- Other Terms

9. HANDLING EQUIPMENT

- Generic Terms
- Defined Terms

10. HEALTH PROTECTION

- Generic Terms
- Defined Terms
 - Assimilation/Exposure Terms
 - Contamination Control Terms
 - Monitoring Instrumentation/Alarm Terms

11. INSTRUMENTATION/CONTROL

- Generic Terms
- Defined Terms
 - Analytical Terms
 - Calibration Terms
 - Control Activities Terms
 - Distributive Control System (DCS) Terms
 - Equipment Terms

12. PROCESS

- Generic Terms
 - Equipment Terms
 - General Chemical Terms

TABLE 8**EQUIPMENT CODE (cont'd)**
(CATEGORY ORDER INDEX)

12. PROCESS (cont'd)

- Defined Terms
 - Abnormal Condition Terms
 - Air/Water Terms
 - Cell. Cover/Trunion Terms
 - Chemical and Chemical Compound Terms
 - Ion Exchange and Separation Terms
 - Control Operation Terms
 - Control Variable Terms
 - Design/Inspection Terms
 - Efficiency Terms
 - Energy/Propulsion terms
 - Evaporator/Reactor Terms
 - Heating and Cooling terms
 - Identified Process Tanks/Vessels/Pits
 - Inter/Intra Area Waste Transfer Terms
 - Intermediate State Terms
 - Isolation Terms
 - Measuring/Cutting Terms
 - Mixing/Filtering/Sealing Terms
 - Operating Mode Terms
 - Piping/Jumper/Hose/Duct Terms
 - Powder Terms
 - Safety Terms
 - Administrative*
 - Equipment*
 - Tanks/Vessels/Sumps Terms
 - Generic Terms*
 - Tank Farm Terms*
 - ITP (In Tank Processing) Terms*
 - ESP (Extended Sludge Processing) Terms*

13. QUALITY ASSURANCE**14. SAFETY**

- Personnel Safety
- Process Safety

TABLE 8
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER INDEX)

15. SECURITY

16. TRAINING

17. TRANSPORTATION

- Generic Terms
- Defined Terms
 - Aircraft, Fuel, Roadways, Vehicles Terms
 - Railroad Terms
 - Consequence Terms

18. VENTILATION

- Generic Terms
- Defined Terms

19. VESSEL VENT

20. WASTE

- Generic Terms
- Defined Terms
 - Composition terms
 - Incineration/Compactor

21. WORKS ENGINEERING

- Generic Terms
- Defined Terms
 - Work Package
 - Design

TABLE 9
EQUIPMENT CODE
(CATEGORY ORDER NUMERICAL LISTING)

1. ADMINISTRATIVE

Plant Organization Terms

257	Reactor Division	671	Wackenhut Services
		684	SREL, DOE, Subcontractor
514	Technical Division (SRTC)	905	SCDHEC
517	Stores, Salvage, Forestry, SREL,(ERDA),	923	Bechtel
558	Construction Division		

Emergency Response/Criticality Terms

005	Criticality
041	Natural Phenomenon
097	NIM
285	Evacuation
439	Bell

Procedure Terms

030	Procedure Violation
054	Procedure Difficulty
395	Procedure Inadequacy

Human Factors Terms

073	Stress	936	Human Factors
298	Personnel Difficulty		

Vendor Related Terms

084	Nooter
127	Vendor

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

2. CONTAINERS: SHIPPING AND STORAGE

Generic Terms - General

166	Bag		
186	Offsite		
239	Shipping Container	512	Tie Down/Closure
243	Shipper, Responsibility	620	Salvage Yard
251	Shipping Papers		
507	Primary Packaging		
508	Secondary Packaging		

Defined Terms

117	Crucible	511	Tank Trailer
143	Vessel/Tank/Container	555	Vault
166	Bag		
207	Cask	742	Canister
269	Storage Rack	746	Container: B-25
416	Storage (In Cell)	750	B12
457	Dumpster	922	Special Engineered Box, Sleeve, tube, etc.
505	Cans, Drums	925	Skip Pan

3. COMMUNICATION

159	Communication - Phone	868	Inadequate Communication
806	Communication Systems		

4. ELECTRICAL

Generic Terms- General

025	Jumper	438	Battery
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TABLE 7
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

4. ELECTRICAL (Cont'd)

Generic Terms- General (Cont'd)

092	Electrical Distribution	444	Flasher
201	Cables/Wiring		
218	Short Circuit- Electrical	449	Trouble Light
263	Lights	475	Electrical Equipment Damaged
282	Alarm/Horn	525	Loss of Load
286	Power Outage	939	Support Structures, Electrical Wire/ Steam Header
428	Heater/Heating Element/ Steam Tracing		

Defined Terms

• Emergency Power

098	Emergency Power	739	Uninterruptable Power Supply (UPS)
470	Diesel	792	Standby

• Equipment

066	Motor		
131	Motor Generator		
193	Switch	545	Interlock
201	Cables/Wiring/Cords		
222	Breaker	625	Motor Control Center
224	Electrical Contact		
308	Transformer-Electrical	761	Fuse
438	Battery		
445	Meter		
446	Regulator	767	Field Terminal Cabinet/Junction Box
447	Relay	793	Power Supply

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

4. ELECTRICAL (Cont'd)

Defined Terms

• Equipment (cont'd)

448	Resistor		
462	Insulation/Insulator	942	Automatic Transfer Switch
492	Generator/Charger	943	Capacitor
501	Bearings	952	Solenoid
		966	Circuit

5. ENVIRONMENTAL

Generic Terms General

041	Natural Phenomenon		
042	Ice, Frozen	536	Rain
047	Seepage Basin	550	Drill/Drilling
072	Lightning	631	Wind
145	Humidity	643	Storm Water
162	Underground	727	Well Water
180	Retention Basin	728	Heat/Temperature
264	Water	887	Seismic
281	Oil Film	893	Tornado
290	Released	983	Diversion/Flood/Sluice Gate/Valve
294	Surface Water		
306	Delaying Basin	989	Vegetation/Algae
489	Wells	991	Erosion

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

5. ENVIRONMENTAL (Cont'd)

Defined Terms

• Air/Effluent Monitor System Terms

279	Stack Monitor
559	Meteorological Instruments
636	Treble Monitor
811	Process Contamination Monitors(Treble, CAM, Storm Water etc.)

• Environmental Releases Terms

046	Four Mile Creek	290	Released
057	Sewer	295	Ground Water
095	Three Runs Creek	304	Diverted
158	Stack	619	Release Guides
162	Underground	644	Ditch
196	Outlet Weir		
281	Oil Film	689	Environmental Releases

6. ERRORS/FAILURES/CAUSES/ROOT CAUSES

Generic Terms

058	Design	255	Unauthorized
073	Stress	283	Ruptured
250	Errors	284	False

Defined Terms (See 12. PROCESS, Abnormal Condition)

001	Transfer Error
002	Overflow

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

6. ERRORS/FAILURES/CAUSES/ROOT CAUSES (Cont'd)

Defined Terms (See 12. PROCESS, Abnormal Condition)

003	Chemical Addition Error		
007	Pluggage		
008	leaks		
013	Over concentration		
014	Coil Leak/Tube Bundle Leak	405	Stuck
015	Instrument Malfunction	417	Weighing Error
016	Corrosion		
		430	Worn Replacement
019	Valving Error	443	Drift
020	Valve Failure	453	Spontaneous Combustion
021	Foaming	466	Friction
030	Procedure Violation	475	Electrical Equipment damaged
050	Breakthrough		
052	Piping Error	476	Transportation Equipment Damaged
		480	Vibration
053	Operating Error	498	Visibility Problems
054	Procedure Difficulty	504	Collision
058	Design	506	Inadequate Monitoring
065	Chips, Cracks, Cracking	518	Excessive Speed
069	Fumes	520	Ran Through, Off
073	Stress	525	Loss of Load
088	Air Reversal	528	Overturn
089	Spill	535	Inattention/ Blackout
115	Decomposition	538	Mislabeled
116	Jacket Leak	543	Inadequate
125	Impurities	544	Limit Exceeded
129	Malfunction/ Faulty	574	Broken Equipment
137	Calculation Error	639	False Alarm
141	Puncture	687	Unintentional Burial
161	Flooded		
174	Suck backs	703	Animal/insect
178	Out-Of-Date	716	Process Irregularities

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

6. ERRORS/FAILURES/CAUSES/ROOT CAUSES (Cont'd)Defined Terms (See 12. PROCESS, Abnormal Condition)

192	Loss	724	Unauthorized container
202	Alignment	725	Improper storage
205	Dropped/Fell	749	Micro biologically Induced Corrosion (MIC)
206	Mechanical Failure		
212	Overload		
214	Hit Floor		
215	Hit Other Than Floor		
217	Jammed Component		
218	Short-Circuit Electrical		
219	Mechanical Damage		
221	Inadequate Function		
225	Faulty Component		
229	Protective Device Missing	766	Steam Collapse
231	Broken Damaged	803	Control Program Error
235	Supervisor Error	809	Lock and Tag Violation
236	Incomplete Job	822	Inadequate Administrative Control
237	Incorrect Position	823	Work Order Deficiency
249	Improper Packaging	872	Personnel Error
250	Errors	880	Conduct Of Operations
254	Missing/Unavailable	888	Pipe Leak
255	Unauthorized		
259	Locked Out		
271	Not Locked Out or tagged Out	895	Design Error/Design Improvement
283	Ruptured		
284	False		
286	Power Outage		
298	Personnel Difficulty		
309	Derail		
395	Procedure Inadequate		
403	Water Hammer		

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

7. FIRE

Generic Terms-General

069	Fumes		
076	Fire	474	Misc. or Unknown
109	Dust		Ignition Source
282	Alarm	639	False Alarm
291	Cutting		
412	Welding		
453	Spontaneous Combustion	646	Fire Detection &
460	Sparks		Suppression
467	Smoking Material	673	Halon
473	Misc. Or Unknown	762	Smoke
	Material Burned		

Generic Terms-Combustible Types

276	Waste	468	Gasoline
401	Coal		
458	Paper	469	Wood
459	Cloth/Canvas	471	Metal
463	Grass	472	Gas
465	Solvent	692	Hydraulic Fluid

8. GENERIC TERMS-GENERAL

ACTION TERMS

192	Loss	432	Repair
212	Overload	504	Collision
		512	Tie Down, Closure
238	Insecure	552	Install, Replace and/or
290	Released		Remove
304	Diverted	792	Standby

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

8. GENERIC TERMS-GENERAL

EQUIPMENT TERMS

128	Equipment	229	Protective Device Missing
		455	Gear Box /Gears
		477	Refrigeration
226	Protective Device Added	501	Bearing,
227	Brake	626	Door
		640	Encasement/Jacket
		658	Tool

MATERIAL TERMS

462	Insulation/Insulator	472	Gas
469	Wood	633	Concrete
471	Metal		

OTHER TERMS

130	Accountability	431	Missiles
133	Caustic Alkali	542	Room
154	Personnel	543	Inadequate
162	Underground	620	Salvage Yard
		692	Hydraulic Fluid
		694	Burner
		699	Less Than 10 Gallons
178	Out of Date	700	Greater Than 10 Gallons
186	Off-Site		

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

9. HANDLING EQUIPMENT

GENERIC TERMS

227	Brake	300	Impact Wrench
		692	Hydraulic Fluid

DEFINED TERMS

059	Drop Line	404	Bucket/Clamshell
086	Screw Conveyor	406	Coal Handling Equipment
107	Elevator/Dumbwaiter	512	Closure Tie Down
118	Hydraulic Systems	529	Fork lift/Motor Crane, Tractor/Lift Truck
181	Lifting Bail		
200	Cranes, Hoists, Traveling Bridge Turntables	627	Manipulator
201	Cables/Wires/Cords	648	Cart
208	Monorail	691	Lazy Susan
211	Yoke/Grapple	768	Center Load
		790	Conveyor
		801	Pneumatic Conveyor
		807	Incell Crane
213	Hook	812	Transporter
		908	Transfer Car

10. HEALTH PROTECTION

GENERIC TERMS

037	Activity		
048	Contamination: Facility or Equipment	153	Contamination Airborne
055	RCA	415	Decontamination
		548	Skin Contamination
		549	Monitoring

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

10. HEALTH PROTECTION (Cont'd)

GENERIC TERMS

093	Blowers, Fans	751	Contamination
106	Radiation	752	Radioactive
114	Exhausters	875	Fixed Contamination
120	Sampling	876	Smearable Contamination
		937	Industrial Hygiene
		993	Detector

DEFINED TERMS

• ASSIMILATION-EXPOSURE TERMS

056	Personal Exposure	479	Uptake/ Injection
153	Contamination- Airborne	548	Skin Contamination
155	Uptake/ Ingestion	582	Bioassay and/or Chest Count
156	Inhalation	682	Nasal Contamination
		683	Uptake/ Absorption
478	Uptake/ Inhalation		

• CONTAMINATION CONTROL TERMS

050	Breakthrough	429	Glove Change
079	Protective Clothing	672	Clothing Contamination
111	Gloves	877	Personal Clothing
150	Hut	924	Shielding

• MONITORING INSTRUMENTATION/ALARM TERMS

158	Stack		
270	H.M. Alarm	804	Personnel Contamination Monitor

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

10. HEALTH PROTECTION (Cont'd)

• **MONITORING INSTRUMENTATION/ALARM TERMS**

279	Stack Monitor	805	Personnel Radiation monitor
441	Chamber	810	Process Radiation Monitor
450	Neutron Monitoring		
506	Inadequate Monitoring	811	Process Contamination Monitor
559	Meteorological Instrumentation		
636	Treble Monitor	824	Source Check
		993	Detector

11. INSTRUMENTATION/CONTROL

GENERIC TERMS

070	Vacuum	444	Flasher
263	Lights	449	Trouble Alarm
282	Alarm	624	Dip Tube
428	Heater/ Heating Element/ Stream Tracing	680	Controller
438	Battery	706	Magnet
441	Chamber	755	Acceptance Criteria

DEFINED TERMS

• **ANALYTICAL TERMS (See 12. PROCESS • Sampling)**

120	Sampling	523	Samples
124	Analytical		
		628	Coil Pressure System
		635	PHA
125	Impurities	698	Oxygen Analyzer
427	Mass Spectrometer	753	Hydrogen Analyzer

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

11. INSTRUMENTATION/ CONTROL (Cont'd)

DEFINED TERMS

• **ANALYTICAL TERMS (See 12. PROCESS • Sampling)**

491	Balance	754	Lower Explosive Limit Analyzer
		882	Benzene Analyzer
		902	Minimum Oxygen For Combustion (MOC)
		994	Lysimeter

• **CALIBRATION TERMS**

440	Calibration	443	Drift
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• **CONTROL ACTIVITIES TERMS**

062	Temperature Control	500	Liquid Level
096	Flow Control	759	Pressure Control
440	Calibration		

• **DISTRIBUTIVE CONTROL SYSTEM (DCS)/COMPUTER TERMS**

481	Computer	871	Cards/Modules/Boards
675	Robot		
697	Combustion Programmers	873	Programmable Logic Control
803	Computer Program Error	899	Distributed Control System
		965	Printer/Scanner

• **EQUIPMENT TERMS**

026	Thermohm	545	Interlock
074	Thermocouple	624	Dip Tube
123	Thermometers		

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

11. INSTRUMENTATION/CONTROL (Cont'd)

DEFINED TERMS

• EQUIPMENT TERMS

193	Switch	659	Rotometer
201	Cables/Wiring/Cords		
222	Breaker/ Circuit	680	Controller
224	Electrical Contact	760	Fitting
226	Protective Device	761	Fuse
228	Limit Switch	767	Field Terminal
			Cabinet/Junction Box
262	Sight Glass	793	Power Supply
287	Gage Instrument	820	Transmitter
308	Transformer	912	Conductivity
			Probe/Sonic/Interface
			Detector
442	Diode		
445	Meter	929	Connector
446	Regulator	930	Amplifier
447	Relay	943	Capacitor
448	Resistor	952	Solenoid
449	Trouble Light	965	Printer/Scanner
497	Recorder/Readout	966	Circuit
		985	Timer/Counter/
			Integrator
		993	Detector

12. PROCESS:

GENERIC TERMS

• Equipment

024	Gasket/Flange	790	Conveyor
049	Acid Absorber	794	Decanter

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12 PROCESS: (Cont'd)

GENERIC TERMS

• Equipment

066	Motor	826	Transfer tank
110	Compressor	827	Receiving tank
118	Hydraulic System	828	Storage tank
136	Header	855	Condensate Tank
		856	Feed Tank
182	Decon Cell	881	Surge Tank
277	Waste Cell	883	Waste Tank
305	Cooling Tower		
477	Refrigeration	892	Pump Tank
493	Precipitator	935	Process Chiller
501	Bearings	951	Seals/Packing/Caulking
676	Funnel/Hopper		
681	Dryer	996	Diaphragm
770	Collection tank		

• Facilities

825	Cold Feed Prep	851	Process Cell
844	Chemical Process Cell	860	299-H
845	Salt Process Cell	869	ITP Filter Building 241-96H
846	Canister Cell	906	Pump House
847	Contact Decon and Maintenance Cell		
848	Weld Cell	992	Barricade/Fence/Enclosure/Dike
849	Sample and Analytical Cell	999	RBOF
850	Melter Cell		

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

GENERIC TERMS

• **General Chemical**

039	Organic	465	Solvent
064	Teflon	494	Coating (lining)/Liner
133	Caustic/Alkali	799	Refractory
		800	Plug

DEFINED TERMS

• **Abnormal Condition Terms**

002	Overflow	204	Snatched
003	Chemical Addition Error	205	Dropped/fell
004	Uncontrolled Reaction	214	Hit Floor
		215	Hit Other Than Floor
006	Siphoning	217	Jammed Component
007	Pluggage	219	Mechanical Damage
		223	Unknown Material
008	Leaks	231	Broken, Damaged
009	Eruption	237	Incorrect Position
010	Boilover	245	Came Apart
011	Boiloff	254	Missing
012	Explosion	258	Material Lost
013	Over Concentration	282	Alarm/Horn
014	Coil Leak	304	Diverted
015	Instrument Malfunction	309	Derail
021	Foaming		
042	Ice/Frozen	430	Worn Replacement
043	Column Flooding	431	Missile
050	Breakthrough	449	Trouble Light
053	Operating Error	475	Electric Equipment
054	Procedure Difficulty		Damaged
		480	Vibration

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

• **Abnormal Condition Terms (cont'd)**

054	Procedure Difficulty	498	Visibility Problem
065	Chipped, Cracks Cracking	504	Collision
		506	Inadequate Monitoring
		520	Ran Through, Off
		538	Mislabeled
069	Fumes	639	False Alarm
089	Spill	701	Ash Buildup
112	Deformation	716	Process Irregularities
125	Impurities	884	Deflagration
129	Malfunction/Faulty	887	Seismic
161	Flooded	888	Pipe Leak

• **Air/Water Terms**

Air

110	Compressor	622	Process Air
151	Breathing Air	681	Air Dryer
477	Refrigeration	705	Plant Air
482	Compressed Air		
496	Instrument Air		

Water

036	Process Water	303	Segregated Water
		305	Cooling Tower
		477	Refrigeration
		489	Wells

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

• **Air/Water Terms (cont'd)**

Water

045	Cooling Water	645	Flush Water
063	Recirculating Water	727	Well Water
264	Water	821	Chilled Water
294	Surface Water	870	Chromated Water
295	Ground Water	935	Process Chiller
		956	Domestic Water
		957	Seal Water

• **Cell Covers/Trunions**

172	Cell Covers	203	Trunions
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• **Chemicals and Compounds Terms**

038	Uranium	630	Ruthenium
044	Nitric Acid	642	Sodium
		668	Helium
051	Silica Gel	690	Hazardous Chemicals
101	Inert Gas	709	Mercury
103	Plutonium	758	Nitrogen
104	Neptunium	785	Benzene
133	Caustic/Alkali	786	Formic Acid
152	Resin	787	Oxalic Acid
172	HAN	788	Sodium Hydroxide
188	Catalyst	798	Frit
194	Iodine		
198	Hydrogen	897	Sodium Nitrite
452	Chlorides	898	Sodium Nitrate
502	Ammonia Compounds	890	Sodium Tetraphenyborate

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)**DEFINED TERMS**

- Chemicals and Compounds Terms (cont'd)

503	Fluoride Compounds	901	Formic Acid
527	Tritium, D2O	904	Carbon Dioxide
537	Thorium		
554	Americium		

- Control Operations Terms

100	Purging	304	Diverted
		410	Melting/Pouring
126	Drain	414	Cabinet Entry/Exit of Material
135	Spurge	433	Leak Check
141	Puncture	512	Tie Down/Closure
149	Valence Adjustment	552	Install/Replace and/or Remove
164	Decant	553	Test
		701	Spray Quench/Spray/ Spray Chamber

- Control Room/Shops Terms

179	Control Room/ Control Board/ Panel Control	183	Shop
		541	Maintenance Room
		542	Room
		626	Door

- Control Variables Terms

062	Temperature Control		
070	Vacuum	500	Liquid Level

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

- **Control Variables Terms (cont'd)**

096	Flow Control		
144	Pressure		
145	Humidity		
280	Turbidity	728	Heat/Temperature
456	Process Heat	729	Flow
480	Vibration	759	Pressure Control
		944	Specific Gravity

- **Effluent Treatment Facility**

911 Effluent Treatment Facility

- **Design/Inspections**

		551	Inspection
058	Design	553	Test
		717	Inspections Annulus
233	Structural Component	718	Inspection inside Tank
252	Dimensions	889	Hydrotest
433	Leak Check	895	Design Error/Design Improvement

- **Efficiency Terms**

289	Inventory	665	Downtime/Repair Time
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- **Energy/Propulsion**

060	Steam	170	Decay Heat
066	Motor	456	Process Heat

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

• **Energy/Propulsion (cont'd)**

070	Vacuum	466	Friction
144	Pressure	728	Heat/Temperature

• **Evaporator/Reactor Terms**

034	Condenser	772	Slurry Mix Evaporator
163	Evaporator	796	Precipitate Reactor
713	Transfer Tank to Evaporator	797	Organic Evaporator
714	Transfer: Evaporator to Tank	941	Condensate System
715	Transfer: Evaporator to Condensate	945	Evaporator Overhead
732	Evaporator 1	946	Evaporator Bottom
733	Evaporator 2	947	Evaporator Bottom Pump Tank
		954	Desalt/Descale

• **Heating and Cooling Terms**

060	Steam	477	Refrigeration
102	Furnace	632	Dehumidifier
132	Heating Coil/Vaporizer	728	Heat/Temperature
167	Cooling Coil	764	Process Chillers
187	Heat Exchanger/Cooler		
232	Bundle/Tube Bundle	941	Condensate System
402	Boiler	988	Air Condition
422	Furnace, Vacuum		
425	Furnace, Induction		
428	Heater, Heating Element		

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

• **Identified Process Tanks/Vessels/Pits/Facilities**

390	Pump Pits		
732	Evaporator 1		
733	Evaporator 2		
740	Sludge Receipt and Adjustment Tank	881	Surge Tank
741	Glass Melter	883	Waste Tank
757	Building 641-G 1AL Pump Pit	886	Cesium Removal Column
770	Collection tank	892	Pump Tank
772	Slurry Mix Evaporator	903	Vitrification Building
773	Low Point Pump Pit 511-S		221-S
774	Service Building 210-S		
775	Glass Waste Storage Building 250S	906	Pump House
776	Exhaust Stack 291-S	938	Recycle Collection Tank
777	Fan House 292-S	940	Decontamination Waste Treatment tank
778	Sand Filter 294-S	958	Hot Decontamination Waste Header
779	Bulk Frit & Chemical Storage 422-S	959	Warm Decontamination Waste Header
780	Organic Waste Storage Facility 430-S		
781	Cooling Tower 981-S		
782	Primary Substation 951-S		
783	DCS Staging Building 706-S		
784	Water & Chemical Waste Treatment Building 980S	960	Formic Acid Waste Header
796	Precipitate Reactor	961	Mercury Transfer Header
797	Organic Evaporator	962	Floor Drain Catch Tank
802	Aux. Pump Pit(512-S)	963	Acid Drain Catch Tank
825	Cold Feed Prep	979	Catch Tank
826	Transfer Tank	982	Building 210-Z
827	Receiving Tank	984	Valve pit/valve box
		986	Late Wash Facility

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

- **Identified Process Tanks/Vessels/Pits/Facilities (cont'd)**

828 Storage Tank
855 Condensate Tank
856 Feed Tank
860 299-H

- **Inter/Intra Area Waste Transfer Terms**

136 Header	931 Lead Detection, Box/Sump/Pot
389 Diversion Box	756 Bldg. 511-S Pump Pit
390 Pump Pit	757 Bldg. 641-G IAL Pump Pit
418 Transfer Locks	773 Low Point Pump Pit
433 Leak Check	
494 Coating/lining	802 Auxiliary Pump Pit(Late Wash Facility)
547 Transfer System	906 Pump House
640 Encasement/Jacket	920 Gang Valve House
645 Flush Water	931 Lead Detection, Box/Sump /Pot
669 Transfer Device	947 Evaporator Bottom Pump Tank
710 Transfer 221 to 241	948 CTS Loop Line
711 Transfer within 241	
712 Transfers: Concentrate Transfer System	953 Transfers: Inter Area Transfer Line
719 Concentrate Transfer System (CTS)	

- **Intermediate State Terms**

018 Precipitation	814 Precipitate
169 Emulsification	

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

- **Intermediate State Terms (cont'd)**

256	Sediments	816	Sludge
266	Saturation	817	Salt
280	Turbidity	818	Glass
521	Debris	819	Recycle
808	Salt Formation	896	Supernate

- **Ion Exchange and Separation Terms**

105	Elution	188	Catalyst
119	Deionizer/ Ion Exchange Columns	493	Precipitator
		634	Scrubber
		743	Mercury Purification Column
149	Valence Adjustment	795	Stripping Column
152	Resin	813	Reverse Osmosis
164	Decant	886	Cesium Removal Column
173	Separator	981	Catalyst

- **Isolation Terms**

138	Blank	389	Diversion Box
157	Gang Valve	546	Trap
165	Pipe	623	Damper
196	Outlet/Weir	640	Encasement/Jacket
227	Brake	931	Leak Detection, Box/ Sump/Pot

- **Measuring/Cutting**

291	Cutting		
435	Reel Tape	738	Pipe Cutter
		932	Steel Tape

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

- **Mixing/Filtering/Sealing Terms**

Filtering

090	Filter (General)/Screen Strainer	813	Reverse Osmosis
-----	----------------------------------	-----	-----------------

Mixing

068	Agitator	539	Vibrator
184	Mixer - Settler Bank		
299	Washer		

Sealing Equipment

075	Weld	789	Welder
176	Seal Pot		
412	Welding	800	Plug

- **Operating Modes Terms**

146	Shutdown
730	Startup
765	Switchover

- **Piping/Jumper/Hose/Duct/Belt**

Generic Terms

024	Flange/Gasket	261	hose
025	Jumper	490	Duct
136	Header		
147	Embedded Pipe		
148	Rack Pipe	771	Temporary Piping

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12 PROCESS: (Cont'd)

DEFINED TERMS

• **Piping/Jumper/Hose/Duct/Belt**

Generic Terms (cont'd)

165	Pipe	862	Expansion Joint
168	Nozzle	929	Connectors
175	Steam Trap	980	Belt

• **Powder Terms**

080	Collection Dust	109	Dust
082	Dust Bag	426	Powder
085	Pulverizer	736	Premix-Blending
086	Screw Conveyor	737	Salt-Cement Mixing
		790	Conveyor
		801	Pneumatic Conveyor

• **Safety Terms**

Administrative

142	Technical Standards/ Operating Limits
240	Responsibility SR00
241	Responsibility SRS
260	Closed Vessel Entry
619	Release Guides
731	Operation Safety Requirement (OSR)
734	OSR Violation
748	Permit Violation
755	Acceptance Requirements
809	Lock and Tag Violation

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

- **Safety Terms**

Administrative

823 Work Order Deficiency
880 Conduct of Operations
885 Unreviewed Safety Question
967 Process Hazard
889 Hydrotest
995 Safety Analysis Report (SAR)

- **Safety Terms**

Equipment

649 Rupture Disk

- *Sampling (See 11. INSTRUMENT CONTROL • Analytical)*

<p style="padding-left: 40px;">120 Sampling 124 Analytical 125 Impurities 302 Door Stop</p>	<p style="padding-left: 40px;">523 Samples 791 Pneumatic Transfer System</p>
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- **Structural**

<p style="padding-left: 40px;">233 Structural Component 451 Window 626 Door</p>	<p style="padding-left: 40px;">852 Roof 853 Floor 854 Wall 862 Expansion Joints</p>
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TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

• **Surveillance/test**

301	Optics	551	Inspection
433	Leak Check	553	Test
451	Window	717	Inspection Annulus
549	Monitoring	718	Inspection Inside tank
		720	TV Camera

• **Tank Farm Basins**

047	Seepage Basin	306	Delaying Basin
180	Retention Basin	948	Fuel/Target Storage Basin

• **Tanks/Vessels/Sumps Terms**

GENERIC TERMS

032	Sump	143	Vessel, Tank, Container
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TANK FARM TERMS

311	Tank 1	341	Tank 31
312	Tank 2	342	Tank 32
313	Tank 3	343	Tank 33
314	Tank 4	344	Tank 34
315	Tank 5	345	Tank 35
316	Tank 6	346	Tank 36
317	Tank 7	347	Tank 37
318	Tank 8	348	Tank 38
319	Tank 9	349	Tank 39
320	Tank 10	350	Tank 40
321	Tank 11	351	Tank 41
322	Tank 12	352	Tank 42

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

TANK FARM TERMS (cont'd)

323	Tank 13	353	Tank 43
324	Tank 14	354	Tank 44
325	Tank 15	355	Tank 45
326	Tank 16	356	Tank 46
327	Tank 17	357	Tank 47
328	Tank 18	358	Tank 48
329	Tank 19	359	Tank 49
330	Tank 20	360	Tank 50
331	Tank 21	361	Tank 51
332	Tank 22	362	Tank 52
333	Tank 23	386	Tank Ventilation
334	Tank 24	387	Tank Annulus Ventilation
335	tank 25	435	Reel Tape
336	tank 26	346	Annulus
337	Tank 27	556	Riser
338	Tank 28	717	Inspection Annulus
339	Tank 29	718	Inspection Inside Tank
340	Tank 30	732	Tank Farm Evaporator 1
		733	Tank Farm Evaporator 2
		808	Salt Formation

ITP (In Tank Processing) TERMS

090	Filter(General)	758	Nitrogen
351	Tank 41	785	Benzene
358	Tank 48	795	Stripping Column
359	Tank 49	869	ITP Filter Building

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

12. PROCESS: (Cont'd)

DEFINED TERMS

- Tanks/Vessels/Sumps Terms

ESP (Extended Sludge Processing) TERMS

332	Tank 22	361	Tank 51
350	Tank 40		
352	Tank 42		

- Transfer Terms (See 12. PROCESS • Inter/Intra Area Waste Transfer Terms)

017	Jet	669	Transfer Device
091	Pump	791	Pneumatic Transfer System
157	Gang Valve	815	Slurry Pump
265	Pump Seals	933	Feed Pump
390	Pump Pits	934	Transfer Pump
547	Transfer System	955	Recirculation/Drum Off/Side
		978	Impeller

13. QUALITY ASSURANCE

723	Quality Control	936	Human Factors
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14. SAFETY

Personal Safety

056	Personal Exposure		
077	Injury	703	Insect/Animal/Bird
141	Puncture		
216	Potential Major Injury	707	Eye Wash Station

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

14. SAFETY (Cont'd)

Personal Safety (cont'd)

532	Fatalities	708	Safety Shower
		981	Safety Equipment
		992	Barricade/Fence/ Enclosure

Process Safety (See Process-Safety)

15. SECURITY

660	Safeguards	671	Wackenhut Services
		747	Security

16. TRAINING

679 Training

17. TRANSPORTATION

Generic Terms

141	Puncture		
186	Off-Site	501	Bearing/Wheels
261	Hose		
438	Battery		
476	Transportation equipment damaged	513	Chocks

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

17. TRANSPORTATION (Cont'd)

Defined Terms

• Aircraft, Fuel, Roadways, Vehicles Terms

066	Motor		
118	Hydraulic Systems		
227	Brake	524	Car, Truck
230	Fuel	529	Fork Lift, Motor Crane, Tractor
248	Trailer		
438	Battery		
468	Gasoline	533	Pulpwood truck
		648	Cart
470	Diesel	685	Highway 125
483	Pavement/Asphalt	686	Aircraft
504	Collision	692	Hydraulic Fluid
509	Roadway	812	Transporter
511	Tank Trailer	928	Oil

• Railroad Terms

210	Rail Car/Cask Car/ Flat Car	309	Derail
242	Railroad Responsibility	510	Road Bed (RR)
		519	Locomotive
296	Tunnel	522	RR Crossing
297	Railroad	629	Rail/ Track

• Consequence

530	Jackknife	531	Skid
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TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

18. VENTILATION

Generic Terms

050	Breakthrough	501	Bearings
082	Dust Bag		
477	Refrigeration		

Defined Terms

023	Demister	292	Ventilation
087	Air Lock	386	Ventilation Tank
088	Air Reversal	387	Ventilation Annulus
090	Filters(General, Screens Strainers)		
093	Blowers, Fans	477	Refrigeration
100	Purging	490	Duct
114	Exhauster	623	Damper
145	Humidity	632	Dehumidifier
158	Stack		
166	Bag		
199	Sand filter	638	HEPA Filter
		910	Vessel Vent
		988	Air Condition

19. VESSEL VENT

023	Demister	623	Damper
034	Condenser	634	Scrubber
069	Fumes	638	HEPA Filter
070	Vacuum	764	Process Chiller
071	Offgas	910	Vessel Vent/Vent
093	Blowers, Fans		
114	Exhausters		
173	Separator		
176	Seal Pot		
386	Ventilation tank		

TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

20. WASTE/RESTORATION

Generic Terms

186	Off Site	909	Hazardous Waste
195	Slugs	913	Mixed Waste
197	Transplutonium	914	TRU Waste
234	Burial Ground	915	Waste-Process(Pipe, Valves, Jumper, Jets)
276	Waste	916	Waste-Electrical- Instrumentation Equipment
		917	Waste-Job Control
		918	Waste-Excavation (Dirt, Asphalt, etc.)
690	Hazardous Chemicals	919	Waste-Ventilation Equipment (Filters, etc.)
829	Low Level Waste	926	Scrap Process Metal
830	Sanitary waste	927	Hazardous Metals (CD, Pb, Hg, Ag)
834	Intermediate Level Waste	992	Barricade/Fence/ Enclosure

• Composition

039	Organic	521	Debris
121	Scrap	527	Tritium, D20
276	Waste	633	Concrete
458	Paper	752	Radioactive
459	Cloth/Canvas	998	Asbestos
464	Plastic		
465	Solvent		
469	Wood		

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

20. WASTE/RESTORATION (Cont'd)

• Disposal

555	Vault		
837	Low Level Waste Trench /ELLT	842	Intermediate Level Waste With Tritium Vault

• Disposal

838	Intermediate Level Waste Trench/GCD	843	Long lived Waste Vault
839	Intermediate Level Non-Tritium Waste Vault	907	Sanitary Landfill
840	Hazardous/Mixed Waste Vault	964	Solid Waste Disposal Facility
841	Low Level Waste Vault	977	High Level Waste Trench
		990	Interim Above Ground Storage

• Incineration/Compactor

485	Refractory	696	Solid Burning
693	Beta Gamma Incinerator	701	Spray/Spray Chamber/Spray Quench
		702	Ash Buildup
694	Burner	726	Waste Compactor
695	Solvent Burning		

• Restoration

863	Capping	865	Closure
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TABLE 9

EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

20 WASTE/RESTORATION (Cont'd)

• Restoration (cont'd)

864	Excavation	866	Waste Removal
		867	Stabilization
		997	Demolition/ Decommissioning

• Storage

831	Interim Mixed waste Treatment and storage		
832	Interim Hazardous Waste Storage	835	Organic Waste Storage
833	Interim TRU Waste Storage/WCF		

• Treatment

831	Interim Mixed Waste Treatment and Storage	836	Chemical/Industrial Waste Treatment
		857	Dewatering Facility
		950	Soils

21. WORKS ENGINEERING

Generic Terms

075	Weld
202	Alignment
209	Hand Tools
273	Band Saw
291	Cutting
407	Machining
412	Welding
419	Dies

TABLE 9
EQUIPMENT CODE (cont'd)
(CATEGORY ORDER NUMERICAL LISTING)

21. WORKS ENGINEERING (Cont'd)

Generic Terms (cont'd)

432 Repairs
454 Maintenance Operation
550 Drill/Drilling
552 Install/Replace/Remove
541 Maintenance Room
658 Tool
675 Robot
738 Pipe Cutter
763 Preventative Maintenance
769 Digging/Chipping
789 Welder
900 Predictive Maintenance

• Work Package

259 Locked Out
260 Closed Vessel Entry
271 Not locked Out or Tagged Out
771 Temporary Piping
809 Lock and Tag Violation
823 Work Order Deficiency

• Design

058 Design
233 Structural Component
252 Dimensions

TABLE 10

APPLICATIONS OF WASTE MANAGEMENT FAULT TREE DATABANK

- Failure Rate Data
- Equipment Breakdown Histories
- Generic Incident Histories
- Data For Systems Analyses and Safety Analysis Reports
- Dates of Specific Events
- Consequences of Incidents
- Data for Design Studies
- Data for Quality Assurance Studies
- Trend Analyses
- Data for Project Justification
- Data for Process Hazards Analysis
- Training
- Process Problem Solving
- Management Decision Data
- Studies of Effectiveness of Administrative Controls
- Incident Audit
- Data for Reliability Studies
- Reference to Source Documents