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WESTERN STATES REGIONAL AGREEMENT  
CAPACITY ASSURANCE UPDATE  
JANUARY 1991

Prepared for:

United States Environmental Protection Agency  
Washington, DC

Submitted by:



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## **I. Introduction**

### **A. Purpose**

The purpose of this report is to provide EPA Regions VIII, IX, and X with an update of the Western States' hazardous waste management capacity assurance progress, in compliance with the supplemental conditions imposed by EPA on the parties to the Western States' Regional Agreement in relation to approval of their capacity assurance plans.

### **B. Organization**

The text of this report is structured as follows. An overview of the current status of the western states' capacity surpluses/deficits is provided immediately below within this Introduction. The text continues with a description of the data tables used to portray commercial, captive, and on-site hazardous waste treatment and disposal capacity available in the western states. A section of observations then highlights changes in both existing capacity and potential future capacity, as illuminated by the aforementioned data tables. The regional dialogue then is discussed, as well as ongoing and planned activities initiated in support of the regional dialogue.

### **C. Overview**

This overview of the current status of western states' hazardous waste treatment and disposal capacity derives from, and briefly highlights, Section III, Observations, below.

During the 1989 capacity assurance process, the Western States agreed that the aggregation of the projected regional demand for and supply of hazardous waste management capacity demonstrated that the states are addressing the potential need for additional hazardous waste management capacity. It was believed that the potential capacity of existing facilities, combined with that of facilities currently undergoing permit review, reasonably meets or exceeds the projected demand for such facilities.

In general, this capacity update confirms that belief held on the part of the Western States. Since the 1989 capacity assurance process, additional capacity has been permitted to address specific commercial deficits identified in the 1989 submission. As well, newly permitted capacity has reinforced existing capacity surpluses recognized in 1989. Finally, newly proposed potential future capacity has served to increase the potential capacity available to the region for future waste management.

Since the 1989 submission, the State of Kansas has approached the Western Governors' Association regarding the possibility of participating in the Western States Regional Agreement, beginning with the 1991 capacity assurance submission. Such cooperation between the State of Kansas and the Western States is likely to be mutually beneficial. Hazardous waste management capacity in Kansas includes a surplus of incineration capacity. This capacity would help to offset the current commercial incineration deficit experienced

by the Western States. The Western States, in turn, have a surplus of landfill capacity for which the State of Kansas currently has a deficit.

## II. Description of Data Tables

Four tables illustrate the changes in capacity in the Western States since the submittal of the 1989 CAP reports. These tables are:

- Table I: Revised Projections for In-Region Supply and Demand for Hazardous Waste Management Capacity by SARA Management Category;
- Tables I(A), I(B), and I(C): Capacity Changes and Revised 1995 Projections (Commercial, Captive, and On-site, respectively);
- Table II: Potential Future Regional TD Capacity by SARA Management Category; and
- Table II(A): Tracking Potential Future Regional TD Capacity.

Additionally, two tables (Table III, Explanation for Changes in Projections for In-Region Supply and Demand for Hazardous Waste Management Capacity, and Table IV, Explanation for Changes in Potential Future Regional TD Capacity) document and detail the specific changes summarized in Tables I, II, and III.

### Table I

Table I summarizes revisions to the regional projected 1995 TD capacity surpluses/deficits reported in the 1989 CAP. The table is divided into two groups of four columns each. The first group displays the projected 1995 surpluses/deficits in commercial, captive, and on-site capacity as reported in the 1989 CAP. The second group of columns represents the newly updated projected 1995 TD capacity surpluses/deficits, reflecting changes reported by the states as having occurred in capacity availability since the 1989 submission. These changes in capacity have occurred primarily as a result of four factors:

- the closure of facilities included in the original (1989) 1995 projections;
- the expansion or modification of existing facilities;
- the inclusion of facilities which newly have been permitted or have come on-line in the 14 months since the 1989 CAP; and/or
- greater accuracy in states' databases.

Table III discusses the specific causes of these changes, by SARA Category, facility type (commercial, captive, or on-site), and state.

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Tables I(A), I(B), and I(C)

Tables I(A), I(B), and I(C) document changes in projected 1995 capacity by state and SARA management category, for commercial, captive, and on-site facilities. For each state, the first two rows of capacity numbers are the Base Year Capacity and the Projected 1995 Capacity reported in the 1989 capacity submission. The third row, Capacity Change Base Year to Dec 1990, displays the difference (negative or positive) in the state's current existing capacity in relation to the Base Year Capacity: how much capacity has been added or removed since the 1989 CAP. This change in capacity is utilized to revise the 1989 CAP's 1995 capacity projection to generate the Revised 1995 Projection, as enumerated in the next line of numbers.<sup>1</sup> The final row, Change in Projected 1995 Capacity, represents the arithmetic difference between the state's 'new' revised 1995 projection and the original 1995 projection from the 1989 CAP.

Table II

Table II, Potential Future Regional TD Capacity by SARA Management Category, summarizes all changes since 1989 in the estimates of potential future capacity. The table displays three groups of three columns each. The first group represents commercial, captive, and on-site potential future capacity as reported in the 1989 CAP. The second represents potential future capacity as reflecting changes since 1989 in the capacity for which permits are being sought. These changes may have resulted from four possible events:

- the withdrawal of a permit application from the permit process;
- the denial of a permit;
- the modification of a submitted permit application; and/or
- the activation of a facility upon receipt of a permit.

The third group of columns displays the differences between the original 1989 CAP numbers and the updated 1990 potential future capacity. Table IV, Explanation for Changes in Potential Future Capacity, documents the specific changes by SARA category, facility type (commercial, captive, and on-site), and state.

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<sup>1</sup> In most cases, the Revised 1995 Projection (Dec 1990) can be traced back to both the Base Year Capacity (1987) and the Projected 1995 Capacity (Oct 1989) by subtracting the Capacity Change Base Year to Dec 1990. Some variations, however, may occur. On occasion, in revising the 1995 projection, it was necessary to take into consideration factors such as facility closure and/or modification, which have not yet occurred but which are expected to occur sometime in the future prior to 1995. Such alterations in capacity would not be reflected in the Capacity Change Base Year to Dec 1990 figures, and, consequently, for such instances, Tables I(A), I(B), and I(C) would not contain explicit records of the specific facilities responsible for the changes occurring to capacity. These changes are documented by a separate table, Table III Explanation for Changes in Existing Capacity.

Table II(A)

Table II(A), Tracking Potential Future Regional TD Capacity, serves to document major facilities in the Western States currently undergoing permit review for TD capacity. The table is organized by state and provides five categories of facility-specific information.

- facility name;
- capacity type (commercial, captive, or on-site);
- SARA management category;
- total proposed capacity (in tons per year);<sup>2</sup> and
- a process code, which signifies whether, and how, the facility was included in the 1989 submission, and how the facility is being included in this capacity update.

This facility-specific information is followed by a series of columns used to track the facility as it proceeds through a state's permit process. Because of the complexity of state permit processes and the variation across states, the table simplifies the permit process into four primary permitting activity categories:

- pre-application activities;
- permit processing and review, and issuance of notice of deficiency;
- issuance of draft permit and public comment period; and
- issuance of final decision.

A fifth column indicates whether the facility has come on-line.

**III. Observations**

Significant progress has been made in addressing many of the commercial shortfalls identified in the 1989 capacity assurance submission. As well, other capacity gains since 1989 have served to reinforce capacity surpluses highlighted in the 1989 submission. Changes in capacity availability of particular note are described below.

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<sup>2</sup> All capacity is represented in units of tons per year (tpy) except that for landfill. Landfill capacity is represented throughout the text and tables in units of tons. This is due to the finite nature of landfill capacity and to the factor of annual utilization, and thus diminishment, of that capacity.

**A. Changes in Existing Capacity - Commercial**

- **Incineration** The 1989 capacity assurance submission highlighted regional shortfalls in liquid and solid/sludge incineration capacity, SARA categories 4 and 5. In the year since the states submitted CAPs, a total of 57,200 tpy of incineration capacity has been added to the region. 56,000 tpy is attributable to the permitting of liquid and solid/sludge incineration capacity at the Aptus, Inc., facility in Utah. The newly permitted capacity has reduced the region's liquid incineration deficit to a shortfall of 48,953 tpy; the deficit of solid/sludge incineration has been reduced to 82,498 tpy.
- **Energy Recovery** The 1989 submission identified a regional deficit of 2,122 tpy. This deficit has been removed and a surplus of 15,393 tpy has been created by the permitting of the proposed expansion of California's National Cement facility, which had been listed as potential future capacity in the 1989 CAP.
- **Aqueous Inorganic Treatment** This update indicates the region maintains a surplus in this type of management, albeit a reduced one. Since the 1989 submission, aqueous inorganic treatment capacity surplus has been reduced from 1,638,980 tpy to 457,141 tpy, principally due to a loss of 1,248,646 tpy in California. This change in California is primarily due to alterations at the Chemical Waste Management/Kings facility, in which some treatment units were combined and others, closed. As a result of these changes, this facility's total remaining capacity, 42,000 tpy, is now listed under Other Treatment.
- **Stabilization** While the region still maintains a surplus in stabilization capacity, this surplus has been reduced since 1989, from 14,187,768 tons to 3,311,273 tons. This decrease in capacity is attributable to two major factors. The State of California has removed approximately 12,224,201 tons of capacity from its ledgers to reflect changed assumptions about the utilization of that capacity. California now believes that, as a result of the Land Disposal Restrictions (LDRs), wastes destined for landfill will first be pre-treated, thus eliminating much of the demand for stabilization capacity. An additional 326,774 tons was lost in Oregon. In the 1989 CAP, Oregon equated its stabilization capacity with that of landfill. Continuing this procedure, Oregon has altered its calculation of stabilization capacity to reflect the 326,774-ton decrease in landfill capacity caused by utilization.

Despite these decreases in stabilization capacity, some additions have been made. Idaho has recalculated its available capacity, resulting in an increase of 1,143,576 tons. Recalculation of capacity in Washington has contributed an additional 6,904 tons to the regional surplus. Colorado, like Oregon, has equated its stabilization capacity with landfill capacity; the 524,000-ton increase in stabilization capacity here reflects a change in the calculation of landfill capacity, discussed below.

- Landfill Commercial landfill capacity has experienced an increase of 6,063,635 tons, from 13,455,386 tons to 19,519,021 tons. California contributed 5,168,439 tons to this increase. Since 1989, California has permitted additional capacity at three facilities - Chemical Waste Management/Kings, Laidlaw Environmental/Imperial, and Laidlaw Environmental/Kern. As well, it has been decided to list as existing capacity most of the proposed capacity associated with these three facilities. Consequently, some of the capacity gained here will appear as a loss in the tables representing, and the discussion of changes in, potential future capacity.

Other gains in landfill capacity have occurred in Colorado and Utah. Colorado has corrected its representation of the capacity at its CECOS landfill to result in an increase of 524,000 tons. Utah has issued a permit to Envirocare, previously listed as potential future capacity, to result in an addition of 1,200,000 tons (adjusted from 1,350,000 tons to reflect utilization) to the regional surplus.

Losses of landfill capacity have taken place in Idaho and Oregon. Idaho has re-assessed annual utilization to amend the 1995 projection with a reduction of 502,030 tons. Oregon, too, has decreased its projection, by 326,774, tons to reflect utilization.

- Other Disposal The region maintains a surplus in other disposal capacity, although a decrease of 19,289,696 tpy has taken place in California. All but 55,434 tpy of California's surface impoundment capacity has closed as a result of the LDRs. [In future, wastes demanding this type of treatment may be managed using evaporative tank systems.]

Other more moderate changes in capacity have occurred in the remaining SARA management categories: metals recovery, solvents recovery, other recovery, aqueous inorganic treatment, aqueous organic treatment, other treatment, and sludge treatment. These changes are detailed in Table III.

#### **B. Changes in Existing Capacity - Captive and On-Site**

Although several changes have taken place, most have been gains in capacity. The overall surplus/deficit picture for the region remains very like that portrayed in 1989. In general, regional demand for captive and on-site hazardous waste TD capacity is met by regional supply of such capacity.

Specific changes are identified in Table III, Explanation for Changes in Projections for In-Region Supply and Demand for Hazardous Waste Management Capacity. Several of the

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losses are attributed to the exclusion in this update of mixed waste capacity at facilities such as Hanford, Washington, as jointly decided by the Hazardous Waste Advisory Group.<sup>3</sup>

C. Changes in Potential Future Capacity

Table IV, Explanation for Changes in Potential Future Regional TD Capacity, documents the specific causes of changes in potential regional capacity. Overall potential future capacity has decreased since 1989, primarily due to a shift of much potential future capacity to existing capacity, as a result of the issuance of permits to six proposed facilities and/or expansions.

Regional potential future capacity continues to address capacity deficits identified in the 1989 CAP or to reinforce capacity surpluses. In addition, much newly proposed capacity contributes to this end. Specifically, twelve facilities have begun the permitting process since the 1989 submission. For commercial capacity, ten newly proposed facilities would contribute capacity to the SARA management categories of metals recovery, aqueous inorganic treatment, aqueous organic treatment, other treatment, stabilization, landfill, and other disposal. For on-site capacity, two facilities would offer capacity for liquid incineration, solid/sludge incineration, and other treatment. This newly identified potential future capacity occurs in the states of California, Colorado, Idaho, Nevada, and Washington.

SARA management categories experiencing significant changes in potential future capacity include incineration and landfill.

- Incineration Both liquid and solid/sludge incineration have experienced apparent losses. Liquid incineration capacity has decreased by 23,500 tpy, resulting in an updated regional potential future capacity of 384,500 tpy. Solid/sludge incineration has decreased by 46,000 tpy to result in a new potential future capacity of 325,400 tpy. These losses are entirely attributable to the issuance of permits for this capacity and the resulting transference of this capacity to the existing capacity tables.
- Landfill The region has experienced a decrease in potential future commercial landfill capacity of 2,800,375 tons, leaving potential future landfill capacity at 5,424,409 tons. As mentioned in the discussion of changes in existing capacity, most proposed landfill capacity in the State of California has been transferred to the existing capacity tables. This alone accounts for 196,375 tons of the apparent loss

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<sup>3</sup> Mixed wastes (combined radioactive and hazardous wastes) require entirely separate management capacity from that allocated to hazardous wastes alone. Consequently, the Hazardous Waste Advisory Group determined it to be inappropriate to include mixed waste management capacity in an aggregation of regional capacity designed to address regional management of hazardous wastes.



of capacity. An additional 1,350,000 tons is "lost" as a result of the issuance of a permit to Utah's Envirocare facility; this capacity has been transferred to the existing capacity tables (less projected utilization). Finally, the capacity associated with Colorado's CECOS, 2,096,000 tons, has been shifted to the revised 1995 projection. One increase has occurred in this category: Idaho's ESII landfill has proposed adding 842,000 tons of capacity.

Other moderate changes have occurred since the 1989 CAP. Commercial potential future capacity for aqueous inorganic and organic treatments has increased by 118,279 tpy and 229,252 tpy, respectively, due to newly proposed capacity in California and Colorado. As well, commercial potential future stabilization capacity has increased 802,200 tons as a result of newly proposed capacity in California and a correction in the representation of Idaho's proposed capacity. For captive capacity, 3,105,800 tpy has been removed from the other treatment category in the potential future capacity tables because the proposed Idaho facility failed to submit an application. These changes, and all others, can be reviewed in greater detail by referring to Table IV.

An analysis of the potential future capacity proposed since the 1989 CAP, and of that which remains in the permit 'pipeline', indicates that the existing deficits in commercial capacity in such categories as incineration are likely to be offset by capacity permitted in the future. As stated in the 1989 submission, the proposed capacity of facilities currently in permit review by individual Western States (in combination with existing capacity) reasonably meets or exceeds the projected regional need for hazardous waste management capacity in 1995 and 2009.<sup>4</sup>

#### IV. Regional Dialogue Activities

Within the context of the Western States Regional Agreement, the participating states agreed to maintain a regional dialogue to discuss hazardous waste management issues identified during the preparation of the 1989 regional CAP. In particular, the states identified six issues for possible investigation within the context of a continuing regional dialogue:

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<sup>4</sup> Please note that in displaying this potential future capacity, the Western States in no way commit to permitting any specific individual facilities. Final permit decisions must continue to be made in accordance with each state's legislated procedures. A commitment to permitting future capacity within this document would act to prejudice the outcome of the permitting process. The regional approach to assuring capacity should be viewed as a planning process and not as a commitment to develop specific capacity. The regional approach does not allocate capacity to individual states, nor does it direct or restrict the flow of wastes among states.

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- the commitment of each state to manage its wastes within its borders;
- the role in-state tipping fees play in the interstate movement of waste;
- an examination of how different definitions of hazardous wastes in each state can be integrated with uniform management standards across all states;
- a discussion on how to communicate about and minimize any inequitable impacts of each state's siting and other policies which influence the location of TSD facilities;
- a plan to develop and provide additional information to the public and the private sector on the need for TSD facilities so as to discourage over-building by the private market; and
- a discussion on how to cooperate and share expertise in the technical aspects of waste management in the West.

To date, the states participating in the regional dialogue have worked to address the first four of these issues. The first issue, the commitment to in-state management, has been addressed through the development of a commitment memorandum which explicitly defines the terms of the Western States' commitment to one another. The states plan to monitor individual state activities in relation to the terms of this "commitment memorandum."

The next three issues have, for the most part, been addressed through the preparation of a regional waste flow analysis. This analysis focused on identifying the factors responsible for influencing the interstate flow of hazardous waste. Through this analysis the states have identified the key factors influencing interstate flow and the degree to which differential fees and different definitions of hazardous waste affect this flow. The states plan to use this analysis as a basis for addressing the fourth issue, inequitable impacts, to the extent that states believe such impacts exist.

In recent months, the Western States have focused on preparing documents for meeting their EPA supplemental conditions. In particular, states have reviewed and revised hazardous waste capacity estimates submitted in 1989 and have prepared documentation of waste minimization activities. In coming months, the regional dialogue is expected to focus on preparing the 1991 capacity assurance submission. This will include using past regional dialogue discussions and issues analysis to act as the basis for preparing and formalizing a regional agreement taking the states through October 1993.

#### V. Summary

As a whole, this capacity assurance update confirms the Western States' belief, avowed during the 1989 capacity assurance process, that, based on analysis of the regional demand for and supply of hazardous waste management capacity, the states are addressing the potential need for additional capacity. As well, the aggregation of existing capacity and that

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capacity associated with facilities currently seeking permits reasonably meets or exceeds the projected regional demand for such capacity.

Since 1989, newly permitted capacity has addressed commercial deficits and reinforced existing capacity surpluses, as identified in the 1989 submission. The number of newly proposed facilities amplifies this progress, increasing the potential capacity available to the region for future hazardous waste management.

Despite the permitting of new capacity since 1989, deficits in existing capacity for liquid and solid/sludge incineration remain. These deficits may be resolved by the possible permitting of newly proposed potential future capacity identified in this update. Additionally, further progress in assuring adequate capacity for these management categories may be made as discussions continue with respect to the prospective participation of the State of Kansas in the Western States Regional Agreement. Should Kansas participate in the Agreement, the deficits in regional liquid and solid/sludge incineration capacity may be reduced.

TABLE I  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
REVISED PROJECTIONS FOR IN-REGION SUPPLY AND DEMAND FOR  
HAZARDOUS WASTE MANAGEMENT CAPACITY BY SARA MANAGEMENT CATEGORY (1995)

	Projected 1995 Surplus/Deficit (1989)				Projected 1995 Surplus/Deficit (End 1990)			
	Commercial	Captive	On-Site	Total	Commercial	Captive	On-Site	Total
S								
Metals recovery	1	95,492	(1,162)	1,374	95,704		9,896	108,525
A								
Solvents recovery	2	106,855	2,429	2,460	111,744		3,499	204,864
R								
Other recovery	3	16,513	(1,038)	(7)	15,468		(7)	15,133
M								
Incineration (Liquid)	4	(77,553)	0	12,378	(65,175)		0	(21,196)
A								
Incineration (Sludge/Solid)	5	(111,098)	(34)	39,028	(72,104)		52,166	(30,366)
N								
Energy recovery	6	(2,122)	(3,919)	31,287	25,246		46,287	57,761
A								
Aqueous inorganic treatment	7	1,638,980	3,531,579	2,876,966	8,047,525		2,791,932	6,739,610
E								
Aqueous organic treatment	8	25,841	0	951,127	976,968		1,351,127	1,514,963
M								
Other treatment	9	(5,969)	1,022,963	2,974,008	3,991,002		3,017,281	3,091,199
E								
Sludge treatment	10	13,617	2,248	976	16,841		5,195	17,198
C								
Stabilization	11	14,187,768	140	16,316	14,204,224		20,358	3,331,631
A								
Land treatment	12	3,773	242,017	37,384	283,174		41,794	287,584
T								
Landfill	13	13,455,386	(18,951)	(502)	13,435,933		274,498	19,774,568
E								
Deepwell injection	14	(2,303)	0	0	(2,303)		0	(2,303)
S								
Other disposal	15	19,345,130	0	0	19,345,130		0	55,434
TOTAL		48,690,310	4,776,272	6,942,795	60,409,377		7,641,783	35,144,605

TABLE I(A)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
CAPACITY CHANGES AND REVISED 1995 PROJECTIONS  
COMMERCIAL CAPACITY

SARA MANAGEMENT CATEGORIES																												
	Metals Recovery		Solvents Recovery		Other Recovery		Incineration (Liquid)		Incineration (Sludge/Solid)		Energy Recovery		Aqu. Inorg.		Aqu. Org.		Other Treat.		Stabilization Treat.		Land Treat.		Landfill		Deepwell Injection		Other Disposal	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15													
AK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	34,037	119,382	0	0	0	20,043	1,356,785	16,000	68,400	0	1,538,465	0	1,538,465	0	19,345,136													
CA	34,037	119,382	0	0	22,500	20,043	1,356,785	16,000	68,400	0	12,392,904	0	12,392,904	0	19,345,136													
	4,420	58,696	0	0	0	17,515	(1,248,646)	125,121	78,842	0	(1,369,762)	0	4,565,935	0	(19,289,696)													
	38,457	178,078	0	0	22,500	37,558	108,139	141,121	147,242	0	168,703	0	17,561,343	0	55,440													
	4,420	58,696	0	0	0	17,515	(1,248,646)	125,121	78,842	0	(12,224,201)	0	5,168,439	0	(19,289,696)													
CO	0	19,600	0	65	65	0	0	0	1,000	0	0	0	0	0														
	0	19,000	0	65	65	0	0	0	4,000	786,000	0	786,000	0	0														
	0	(600)	0	0	0	0	0	0	0	2,096,000	0	2,096,000	0	0														
	0	19,000	0	65	65	0	0	0	1,000	1,310,000	0	1,310,000	0	0														
	0	0	0	0	0	0	0	0	0	524,000	0	524,000	0	0														
HI	0	2,624	0	0	0	0	0	0	0	0	0	0	0	0														
	0	2,624	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	20,000	20,000	0	35,224	0	1,976,179	0	0														
	0	0	0	0	0	0	0	0	0	1,178,800	0	1,456,179	0	0														
	0	2,624	0	0	0	0	20,000	20,000	0	1,178,800	0	(797,030)	0	0														
	0	0	0	0	0	0	0	0	0	1,178,800	0	954,149	0	0														
	0	0	0	0	0	0	0	0	0	1,143,576	0	(502,030)	0	0														
ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0														

TABLE I(A)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
CAPACITY CHANGES AND REVISED 1995 PROJECTIONS  
COMMERCIAL CAPACITY

	SARA MANAGEMENT CATEGORIES														
	Metals Recovery	Solvents Recovery	Other Recovery	Incineration (Liquid)	Incineration (Sludge/solid)	Energy Recovery	Aqu. Inorg. Treat.	Aqu. Org. Treat.	Other Treat.	Sludge Treat.	Stabilization	Land Treat.	Landfill	Deepwell Injection	Other Disposal
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NV	84,000	0	0	0	0	0	24,000	0	208	12,000	1,275	0	1,690,722	0	0
	Projected 1995 Capacity (Oct 1989)						24,000		208	12,000	1,275		1,075,914		
	Capacity Change Base Year to Dec 1990						0		0	0	0		0		
	Revised 1995 Projection (Dec 1990)	84,000	0	0	0	0	24,000	0	208	12,000	1,275	0	1,075,914	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OR	0	972	0	0	0	0	0	0	0	0	1,958,829	0	1,958,829	0	0
	Base Year Capacity (1987)										1,958,829		1,958,829		
	Projected 1995 Capacity (Oct 1989)	0	972	0	0	0	0	0	2,480	0	1,080,587	0	1,080,587	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	(845,829)	0	(845,829)	0	0
	Revised 1995 Projection (Dec 1990)	0	972	0	0	0	0	0	2,480	0	753,813	0	753,813	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	(326,774)	0	(326,774)	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Base Year Capacity (1987)														
	Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UT	0	1,334	0	0	0	0	28,800	0	29,730	0	52,805	3,887	456,500	0	0
	Base Year Capacity (1987)						28,800		29,730		52,805	3,887	855,000		
	Projected 1995 Capacity (Oct 1989)	0	1,334	0	0	0	28,800	0	29,730	0	52,805	3,887	855,000	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	0	1,334	0	28,000	28,000	28,800	0	29,730	0	52,805	3,887	2,055,000	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	28,000	28,000	0	0	0	0	0	0	1,200,000	0	0
WA	15,000	66,718	18,502	0	0	0	422,806	1,813	6,290	862	143,649	0	0	0	0
	Base Year Capacity (1987)						422,806	1,813	6,290	862	143,649				
	Projected 1995 Capacity (Oct 1989)	15,000	66,718	18,502	0	0	422,806	1,813	6,290	862	143,649	0	0	0	0
	Capacity Change Base Year to Dec 1990	0	33,395	(82)	600	600	66,807	12,770	2,325	0	6,904	0	0	0	0
	Revised 1995 Projection (Dec 1990)	15,000	100,113	18,420	600	600	489,613	14,583	8,615	0	150,553	0	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	33,395	(82)	600	600	66,807	12,770	2,325	(862)	6,904	0	0	0	0
WY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Base Year Capacity (1987)														
	Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Regional Net Change of Projected 1995 Capacity (December 1990)	4,420	92,091	(82)	28,600	28,600	(1,181,839)	137,891	81,167	(3,862)	(10,876,495)	0	6,063,635	0	(19,289,696)

TABLE I(B)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
CAPACITY CHANGES AND REVISED 1995 PROJECTIONS  
CAPTIVE CAPACITY

	SARA MANAGEMENT CATEGORIES														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Metals Recovery	Solvents Recovery	Other Recovery	Incineration (Liquid)	Incineration (Sludge/solid)	Energy Recovery	Aqu. Inorg. Treat.	Aqu. Org. Treat.	Other Treat.	Sludge Treat.	Stabilization	Land Treat.	Landfill	Deepwell Injection	Other Disposal
AK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CA	0	0	0	0	0	0	501,232	0	0	0	0	242,417	0	0	0
	0	0	0	0	0	0	501,232	0	0	0	0	242,417	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	501,232	0	0	0	0	242,417	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HI	0	0	0	0	0	0	65,158	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	65,158	0	0	1,450	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	65,158	0	0	1,450	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE I(B)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
CAPACITY CHANGES AND REVISED 1995 PROJECTIONS  
CAPTIVE CAPACITY

	SARA MANAGEMENT CATEGORIES														
	Metals Recovery	Solvents Recovery	Other Recovery	Incineration (Liquid)	Incineration (Sludge/solid)	Energy Recovery	Aqu. Inorg. Treat.	Aqu. Org. Treat.	Other Treat.	Sludge Treat.	Stabilization	Land Treat.	Landfill	Deepwell Injection	Other Disposal
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OR	0	284	0	0	148	0	916,667	0	522	1,007	0	0	0	0	0
Projected 1995 Capacity (Oct 1989)	0	284	0	0	148	0	916,667	0	522	1,007	0	0	0	0	0
Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revised 1995 Projection (Dec 1990)	0	284	0	0	148	0	916,667	0	522	1,007	0	0	0	0	0
Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WA	121	2,227	253	0	0	0	2,055,275	0	1,024,303	0	140	0	0	0	0
Projected 1995 Capacity (Oct 1989)	121	2,227	253	0	0	0	2,055,275	0	1,024,303	0	140	0	0	0	0
Capacity Change Base Year to Dec 1990	(121)	(10)	(253)	0	0	0	(41,042)	104	(1,024,243)	0	(140)	0	0	0	0
Revised 1995 Projection (Dec 1990)	0	2,217	0	0	0	0	2,014,233	104	60	0	0	0	0	0	0
Change in Projected 1995 Capacity (Dec 1990)	(121)	(10)	(253)	0	0	0	(41,042)	104	(1,024,243)	0	(140)	0	0	0	0
WY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regional Net Change of Projected 1995 Capacity (December 1990)	(121)	(10)	(253)	0	0	0	(41,042)	104	(1,024,243)	0	(140)	0	0	0	0



TABLE 1(C)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
CAPACITY CHANGES AND REVISED 1995 PROJECTIONS  
ON-SITE CAPACITY

	SARA MANAGEMENT CATEGORIES														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Metals Recovery	Solvents Recovery	Other Recovery	Incineration (Liquid)	Incineration (Sludge/solid)	Energy Recovery	Aqu. Inorg. Treat.	Aqu. Org. Treat.	Other Treat.	Sludge Treat.	Stabilization	Land Treat.	Landfill	Deepwell Injection	Other Disposal
AK	104	23	0	0	0	10,650	0	0	169	66	0	0	0	0	0
	Projected 1995 Capacity (Oct 1989)	23	0	0	0	10,650	0	0	169	66	0	0	0	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	104	23	0	0	10,650	0	0	169	66	0	0	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Projected 1995 Capacity (Oct 1989)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Capacity Change Base Year to Dec 1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Revised 1995 Projection (Dec 1990)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO	0	409	0	0	558	1,100	960,232	215,184	1,731,305	0	595	0	0	0	0
	Projected 1995 Capacity (Oct 1989)	0	427	0	558	1,100	960,232	215,184	1,677,215	0	15,022	0	0	0	0
	Capacity Change Base Year to Dec 1990	0	406	0	(38)	0	(24)	0	(30,291)	219	15,000	1,060	275,000	0	0
	Revised 1995 Projection (Dec 1990)	0	406	0	520	1,100	960,208	215,184	1,701,014	219	15,595	1,060	275,000	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	(21)	0	(38)	0	(24)	0	23,799	219	573	1,060	275,000	0	0
HI	0	83	0	0	0	0	74,142	0	2	0	0	1,750	0	0	0
	Projected 1995 Capacity (Oct 1989)	0	83	0	0	0	76,309	0	0	0	0	1,750	0	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	0	83	0	0	0	76,309	0	0	0	0	1,750	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ID	7	500	0	12,301	600	200	477,398	20,000	358,112	421	1,561	0	0	0	0
	Projected 1995 Capacity (Oct 1989)	7	500	0	1,300	200	69,000	0	390,247	421	1,531	0	0	0	0
	Capacity Change Base Year to Dec 1990	8,518	0	0	(1,101)	0	(450,848)	380,000	46,609	0	3,439	0	0	0	0
	Revised 1995 Projection (Dec 1990)	8,525	500	0	11,200	200	26,550	400,000	404,721	421	5,000	0	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	8,518	0	0	(1,101)	0	(42,450)	400,000	14,474	0	3,469	0	0	0	0
MT	0	0	0	0	0	0	0	0	2,006	930	0	23,568	0	0	0
	Projected 1995 Capacity (Oct 1989)	0	0	0	0	0	0	0	2,006	930	0	23,568	0	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	2,006	930	0	23,568	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ND	0	0	0	3,240	860	0	0	0	8,280	0	0	0	0	0	0
	Projected 1995 Capacity (Oct 1989)	0	0	0	860	0	0	0	8,280	0	0	0	0	0	0
	Capacity Change Base Year to Dec 1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Revised 1995 Projection (Dec 1990)	0	0	0	0	0	0	0	8,280	0	0	0	0	0	0
	Change in Projected 1995 Capacity (Dec 1990)	0	0	0	(860)	0	0	0	0	0	0	0	0	0	0

TABLE I(C)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
CAPACITY CHANGES AND REVISED 1995 PROJECTIONS  
ON-SITE CAPACITY

	SARA MANAGEMENT CATEGORIES														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Metals Recovery	Solvents Recovery	Other Recovery	Incineration (Liquid)	Incineration (Sludge/solid)	Energy Recovery	Aqu. Inorg. Treat.	Aqu. Org. Treat.	Other Treat.	Sludge Treat.	Stabilization	Land Treat.	Landfill	Deepwell Injection	Other Disposal
NV	0	22	0	5,000	34,000	0	0	833	225	0	0	0	0	0	0
	0	22	0	5,000	34,000	0	0	833	225	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	22	0	5,000	34,000	0	0	833	225	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UT	311	160	0	3,964	4,996	20,181	1,400,994	876,000	75,883	0	0	0	153,639	0	0
	311	160	0	3,964	4,996	20,181	1,400,994	876,000	75,883	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	311	160	0	23,684	9,132	20,181	1,400,994	876,000	75,883	0	0	0	0	0	0
	0	0	0	19,720	4,136	0	0	0	0	0	0	0	0	0	0
WA	1,066	1,302	0	2	70	0	370,491	49,737	825,624	0	0	16,272	0	0	0
	1,066	1,302	0	2	70	0	370,491	49,737	825,624	0	0	16,272	0	0	0
	4	1,060	0	0	0	15,000	(42,560)	0	5,000	4,000	0	3,350	0	0	0
	1,070	2,362	0	2	70	15,000	327,931	49,737	830,624	4,000	0	19,622	0	0	0
	4	1,060	0	0	0	15,000	(42,560)	0	5,000	4,000	0	3,350	0	0	0
WY	0	0	0	0	0	0	0	0	14,500	0	0	1,500	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	1,500	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	1,500	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8,522	1,039	0	15,379	13,138	15,000	(85,034)	400,000	43,273	4,219	4,042	4,410	275,000	0	0

TABLE II  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
POTENTIAL FUTURE REGIONAL TD CAPACITY (tons/yr)  
BY SARA MANAGEMENT CATEGORY

	Potential Capacity (October 1989)			Updated Future Potential			Revisions (1990)		
	Commercial	Captive	On-Site	Commercial	Captive	On-Site	Commercial	Captive	On-Site
1 Metals recovery	0	0	0	49,460	0	0	49,460	0	0
2 Solvents recovery	68	0	0	68	0	0	0	0	0
3 Other recovery	0	0	0	0	0	0	0	0	0
4 Incineration (Liquid)	408,000	5,623	19,718	384,500	5,623	(2)	(23,500)	0	(19,720)
5 Incineration (Sludge/Solid)	371,400	15,120	4,136	325,400	2,640	0	(46,000)	(12,480)	(4,136)
6 Energy recovery	17,515	18,758	0	5,150	18,758	0	(12,365)	0	0
7 Aqueous inorganic treatment	71,321	0	0	189,600	0	0	118,279	0	0
8 Aqueous organic treatment	19,321	0	0	248,573	0	0	229,252	0	0
9 Other treatment	728,581	3,107,100	0	743,728	1,300	12,002	15,147	(3,105,800)	12,002
10 Sludge treatment	3,000	0	0	3,753	0	0	753	0	0
11 Stabilization	172,800	0	0	975,000	0	0	802,200	0	0
12 Land treatment	0	0	0	0	0	0	0	0	0
13 Landfill	8,224,784	0	0	5,424,409	0	0	(2,800,375)	0	0
14 Deepwell injection	0	0	0	0	0	0	0	0	0
15 Other disposal	0	300	0	33,600	0	0	33,600	(300)	0
<b>TOTAL</b>	10,016,790	3,146,901	23,854	8,383,241	28,321	12,000	(1,633,549)	(3,118,580)	(11,854)

TABLE II(A)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
TRACKING POTENTIAL FUTURE REGIONAL TD CAPACITY

FACILITY INFORMATION				PERMIT PROCESS STEPS					
Facility	Facility Type	SARA Management Category	Capacity (tons/yr)	Process Code *	Pre-Application Activities	Permit Review and Processing; Notice of Deficiency	Draft Permit; Public Comment	Issue Final Decision	Facility On-Line
AK	None								
CA	Engelhard West Inc.	Comm	1,460	3	Part A				
	AAA Dist/Dry Clean Serv.	Comm	1,216	1	Status Survey				
	Baron Blakeslee (Alameda)	Comm	2,520	1			Renewal		
	Bayday	Comm	252	1		Part A			
	Holchem Inc.	Comm	2,100	1			Part A	12/90	ISD
	OSCO	Comm	37,800	1		Part B			
	Rho-Chem	Comm	33,600	1				10/90	
	Romic	Comm	32,009	1				Part B	
	Safety Kleen Corp.	Comm	68	2			X	6/91	
	Safety Kleen Corp.	Comm	29,400	1			X	6/91	
	Solvent Services	Comm	26,208	1				12/90	ISD
	Rhone-Poulenc	Comm	142,000	2		X			
	Cal. Thermal Trt. Sys.	Comm	22,500	1				Pending	
	Chemical Waste Management	Comm	86,400	2			X		
	National Cement	Comm	17,515	2					X
	Appropriate Technologies II	Comm	37,380	1				Part A	
	Chem Clear Inc.	Comm	183,100	3				Pending	
	Oil Process Co.	Comm	8,064	1				8/90	
	Pacific Treatment #1	Comm	25,000	1					Closure 1/91
	Solvent Services	Comm	17,690	1				12/90	ISD
	So. CA Chemical Co.	Comm	2,856	1					Prop Clos
	OSCO	Comm	217,073	3	X				
	Pacific Trt. #1	Comm	25,000	3					Prop Clos 1/91

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Abbreviations explained:

ISD - interim status determination  
 NOD - Notice of Deficiency  
 Prop Clos - proposing closure  
 A&B - RCRA permit Parts A and B

TABLE II(A)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
TRACKING POTENTIAL FUTURE REGIONAL TD CAPACITY

FACILITY INFORMATION				PERMIT PROCESS STEPS					
Facility	Facility Type	SARA Management Category	Capacity (tons/yr)	Process Code *	Pre-Application Activities	Permit Review and Processing; Notice of Deficiency	Draft Permit; Public Comment	Issue Final Decision	Facility On-Line
CA	Americhem, Inc.	Comm	9 4,395	2	Part A			Pending	
	Laidlaw Environmental	Comm	9 705,533	2	X				
	Pacific Treatment #1	Comm	9 60,000	1					Prop Clos
	Pacific Treatment #1	Comm	11 5,000	1					Prop Clos
	Casmalia Resources	Comm	13 2,949,800	3				Pending	
	Chemical Waste Management	Comm	13 8,175,165	4		X			
	Laidlaw Environmental (Imperial)	Comm	13 1,567,609	3					1998
	Laidlaw Environmental (Imperial)	Comm	13 734,078	4					1995
	Laidlaw Environmental (Kern)	Comm	13 244,412	4					1991
	Laidlaw Environmental (Kern)	Comm	13 3,569,258	4					As Needed
	Laidlaw Environmental (Kern)	Comm	13 1,559,180	4					Built
	Laidlaw Environmental (Kern)	Comm	13 105,350	4					X
	Chemical Waste Management	Comm	15 33,600	3	X				
CO	Oil & Solvent Process Co.	Comm	11 120,000	3		Part B			
	CF&I Steel Corp.	On	11 15,000	1		Closure plan			X
	CECOS International Inc.	Comm	11 2,096,000	4					3/91
	CECOS International Inc.	Comm	13 2,096,000	4					3/91
	Sentry	Comm	7 6,500	3		NOD			
	Sentry	Comm	8 6,500	3		NOD			
	Sentry	Comm	11 13,000	3		NOD			
	Chemical Handling	Comm	9 33,800	3	X				
HI	Advanced Technology, Inc.	Comm	4 3,500	2		X			

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TABLE II(A)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
TRACKING POTENTIAL FUTURE REGIONAL TD CAPACITY

FACILITY INFORMATION				PERMIT PROCESS STEPS					
Facility	Facility Type	SARA Management Category	Capacity (tons/yr)	Process Code	Pre-Application Activities	Permit Review and Processing; Notice of Deficiency	Draft Permit; Public Comment	Issue Final Decision	Facility On-Line
Blount Inc	Comm	10	3,753	3		NOD			
ESII	Comm	11	842,000	3		X			
ESII	Comm	13	842,000	3		X			
INEL	On	1	8,525	1		X			
INEL	On	4	11,200	1		X			
INEL	On	5	11,200	1		X			
INEL	On	7	26,550	1		X			
INEL	On	8	400,000	1		X			
INEL	On	9	404,721	1		X			
INEL	On	11	5,000	1		X			
None									
None									
Disposal Control Services, Inc.	Comm	4	3,500	2	X				
Disposal Control Services, Inc.	Comm	4	4,000	3	X				
Disposal Control Services, Inc.	Comm	5	3,500	2	X				
Disposal Control Services, Inc.	Comm	5	4,000	3	X				
Defense Systems Corp.	On	9	5,150	3	X				
Fallon Naval Air Station	On	9	12,000	3		X			
DOE Nevada Test Site	Cap	9	1,200	3		A&B			

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TABLE II(A)  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
TRACKING POTENTIAL FUTURE REGIONAL TD CAPACITY

FACILITY INFORMATION				PERMIT PROCESS STEPS						
State	Facility	Facility Type	SARA Management Category	Capacity (tons/yr)	Process Code *	Pre-Application Activities	Permit Review and Processing; Notice of Deficiency	Draft Permit; Public Comment	Issue Final Decision	Facility On-Line
OR	Chem-Waste Management	Comm	13	937,423	1					X
	Chem-Waste Management	Comm	13	570,203	1					As Needed
	Chem-Waste Management	Comm	11	1,507,626	1					As Needed
SD	None									
UT	Aptus, Inc.	Comm	4	28,000	4				3-90	
	Aptus, Inc.	Comm	5	28,000	4				3-90	
	Envirocare	Comm	13	1,350,000	4				11-30	
	Tooele Army Depot	On	4	19,720	4				6-89	
	Tooele Army Depot	On	5	4,136	4				6-89	
	USPCI CIF	Comm	4	196,000	2				Draft Issued 12-90	
WA	USPCI CIF	Comm	5	196,000	2				Draft Issued 12-90	
	RECONTEK	Comm	1	48,000	3	X				
	Rabanco Grant County Waste Mgmt	Comm	4	17,500	2		NOD			
	Rabanco Grant County Waste Mgmt	Comm	5	17,500	2		NOD			
	ECOS	Comm	4	18,000	2		X			
	ECOS	Comm	5	18,000	2		X			
WY	ECOS	Comm	13	65,000	2		X			
	None									

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TABLE III  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
EXPLANATION FOR CHANGES IN PROJECTIONS FOR IN-REGION SUPPLY AND  
DEMAND FOR HAZARDOUS WASTE MANAGEMENT CAPACITY (1995)

SARA Category	Type	Capacity Change by SARA Category	Regional Projected		State	Capacity Change by State	Cause of Capacity Change
			1989 CAP	1990 Revision			
Metals Recovery	1 Comm	4,420	95,492	99,912	CA	4,420	More accurate capacity numbers
Solvents Recovery	2 Comm	92,091	106,855	198,946	CA WA	58,696 14,189	More accurate capacity numbers Sol-Pro/Lilyblad recalculation of capacity
Other Recovery	3 Comm	(82)	16,513	16,431	WA	(82)	McClary Columbia expansion, recalculation of capacity Northwest Processing expansion Recalculation of capacity
Incineration (Liquid)	4 Comm	28,600	(77,553)	(48,953)	UT WA	28,000 600	More accurate capacity numbers Aptus, Inc. permit issued and shift from potential future table Penberthy Electromelt omitted in 1989 CAP
Incineration (Solid/Sludge)	5 Comm	28,600	(111,098)	(82,498)	UT WA	28,000 600	Aptus, Inc. permit issued and shift from potential future table Penberthy Electromelt omitted in 1989 CAP
Energy Recovery	6 Comm	17,515	(2,122)	15,393	CA	17,515	National Cement expansion permitted and shift from potential future table
Aqueous Inorganic Trt.	7 Comm	(1,181,839)	1,638,980	457,141	CA	(1,248,646)	More accurate capacity numbers; alteration of Chem Waste Mgmt treatment units (capacity now classified as Other Treatment)
Aqueous Organic Trt.	8 Comm	137,891	25,841	163,732	WA CA WA	66,807 125,121 12,770	More accurate capacity numbers More accurate capacity numbers McClary Columbia expansion of capacity



TABLE III  
 CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
 EXPLANATION FOR CHANGES IN PROJECTIONS FOR IN-REGION SUPPLY AND  
 DEMAND FOR HAZARDOUS WASTE MANAGEMENT CAPACITY (1995)

SARA Category	Type	Capacity Change by SARA Category	Regional Projected		State	Capacity Change by State	Cause of Capacity Change
			1989 CAP	1990 Revision/Deficit			
Other Treatment	9 Comm	81,167	(5,969)	75,198	CA	78,842	Two facilities (Brocco; Crosby & Overton) came on-line; Chem Waste Mgmt capacity previously classified as Aqueous Inorganic Treatment More accurate capacity numbers
Sludge Treatment	10 Comm	(3,862)	13,617	9,755	WA CO WA	2,325 (3,000) (862)	OSCO did not begin permit process More accurate capacity numbers
Stabilization	11 Comm	(10,876,495)	14,187,768	3,311,273	CA CO ID OR WA	(12,224,201) 524,000 1,143,576 (326,774) 6,904	Change in assumptions for calculating stabilization capacity Utilization mistakenly listed as capacity ESII recalculation of capacity Reflects utilization of landfill capacity More accurate capacity numbers
Landfill	13 Comm	6,063,635	13,455,386	19,519,021	CA CO ID OR UT	5,168,439 524,000 (502,030) (326,774) 1,200,000	Additional capacity permitted (Chemical Waste Mgmt, 2 Laidlaw Environmental sites) and shift from potential future table Utilization mistakenly listed as capacity Utilization greater than projected Utilization of landfill capacity Envirocare permit issued (less projected utilization) and shift from potential future table
Other Disposal	15 Comm	(19,289,696)	19,345,130	55,434	CA	(19,289,696)	Closure of most surface impoundment capacity due to LDRs (some Chemical Waste Management capacity remains in operation); recalculation of capacity

TABLE III  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
EXPLANATION FOR CHANGES IN PROJECTIONS FOR IN-REGION SUPPLY AND  
DEMAND FOR HAZARDOUS WASTE MANAGEMENT CAPACITY (1995)

SARA Category	Type	Capacity Change by SARA Category	Regional Projected		State	Capacity Change by State	Cause of Capacity Change
			1989 CAP	1990 Revision			
Metals Recovery	1 Cap	(121)	(1,162)	(1,283)	WA	(104) (17)	More accurate capacity numbers Hanford mixed waste facilities no longer included
Solvents Recovery	2 Cap	(10)	2,429	2,419	WA	(4) (6)	Washington Chemicals reduction and recalculation of capacity Hanford mixed waste facilities no longer included
Other Recovery	3 Cap	(253)	(1,038)	(1,291)	WA	(253)	Hanford mixed waste facilities no longer included
Aqueous Inorganic Trt.	7 Cap	(41,042)	3,531,579	3,490,537	WA	(41,042)	More accurate capacity numbers
Aqueous Organic Trt.	8 Cap	104	0	104	WA	104	The Boeing Company/Everett omitted in 1989 CAP
Other Treatment	9 Cap	(1,024,243)	1,022,963	(1,280)	WA	(1,153,565) 129,322	Hanford mixed waste facilities no longer included More accurate capacity numbers
Stabilization	11 Cap	(140)	140	0	WA	(140)	Hanford mixed waste facilities no longer included

TABLE III  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
EXPLANATION FOR CHANGES IN PROJECTIONS FOR IN-REGION SUPPLY AND  
DEMAND FOR HAZARDOUS WASTE MANAGEMENT CAPACITY (1995)

SARA Category	Type	Capacity Change by SARA Category	Regional Projected		State	Capacity Change by State	Cause of Capacity Change
			1989 CAP	1990 Revision/Deficit			
Metals Recovery	1 On	8,522	1,374	9,896	ID WA	8,518 4	INEL recalculation of capacity More accurate capacity numbers
Solvents Recovery	2 On	1,039	2,460	3,499	CO WA	(21) 1,060	Eagle Picher did not begin permit process More accurate capacity numbers
Incineration (Liquid)	4 On	15,379	12,378	27,757	ID ND UT	(1,101) (3,240) 19,720	INEL recalculation of capacity Closure of AMOCO facility Tooele Army Depot permit issued and shift from potential future table
Incineration (Sludge/Solid)	5 On	13,138	39,028	52,166	CO ID ND UT	(38) 9,900 (860) 4,136	Closure of El DuPont by 1995 INEL recalculation of capacity Closure of AMOCO facility Tooele Army Depot permit issued and shift from potential future table
Energy Recovery	6 On	15,000	31,287	46,287	WA	15,000	More accurate capacity numbers
Aqueous Inorganic Trt.	7 On	(85,034)	2,876,966	2,791,932	CO ID WA	(24) (42,450) (42,560)	Closure of El DuPont by 1995 INEL recalculation of capacity More accurate capacity numbers
Aqueous Organic Trt.	8 On	400,000	951,127	1,351,127	ID	400,000	INEL recalculation of capacity

TABLE III  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
EXPLANATION FOR CHANGES IN PROJECTIONS FOR IN-REGION SUPPLY AND  
DEMAND FOR HAZARDOUS WASTE MANAGEMENT CAPACITY (1995)

SARA Category	Type	Capacity Change by SARA Category	Regional Projected		State	Capacity Change by State	Cause of Capacity Change
			1989 CAP	1995 Surplus/Deficit			
Other Treatment	9 On	43,273	2,974,008	3,017,281	CO	23,799	Closure (CF&I, 3 Eagle Picher sites); recalculation of base year capacity
Sludge Treatment	10 On	4,219	976	5,195	ID	14,474	INEL recalculation of capacity
					WA	5,000	More accurate capacity numbers
Stabilization	11 On	4,042	16,316	20,358	CO	219	Conoco omitted in 1989 CAP
					WA	4,000	More accurate capacity numbers
Land Treatment	12 On	4,410	37,384	41,794	CO	573	Martin Marietta - correction of 1989 CAP's 1995 projection table
					WA	3,469	INEL recalculation of capacity
Landfill	13 On	275,000	(502)	274,498	CO	1,060	Western Slope Refining omitted in 1989 CAP
					CO	3,350	More accurate capacity numbers
						275,000	CF&I - recalculation of capacity

TABLE IV  
 CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
 EXPLANATION FOR CHANGES IN POTENTIAL FUTURE REGIONAL TD CAPACITY

SARA Category	Type	Capacity Change by SARA Category	Regional Future Capacity		State	Capacity Change by State	Cause of Capacity Change
			Potential 1989 CAP	1990 Revision			
Metals Recovery	1 Comm	49,460	0	49,460	CA WA	1,460 48,000	Engelhard West newly proposed capacity RECONTEK newly proposed capacity
Incineration (Liquid)	4 Comm	(23,500)	408,000	384,500	NV UT	4,000 (28,000)	Disposal Control Services - recalculation of capacity Aptus, Inc. permit issued and capacity shifted to revised 1995 projection
Incineration (Solid/Sludge)	5 Comm	(46,000)	371,400	325,400	WA CA	500 (22,500)	Grant County Waste Mgmt - recalculation of capacity Cal. Thermal Trt. Systems inadvertently double-counted in 1989 CAP: listed in both projected 1995 and potential future capacity tables
Energy Recovery	6 Comm	12,365	17,515	5,150	NV UT WA CA	4,000 (28,000) 500 (17,515)	Disposal Control Services - recalculation of capacity Aptus, Inc. permit issued and capacity shifted to revised 1995 projection Grant County Waste Mgmt - recalculation of capacity National Cement expansion permitted and capacity shifted to revised 1995 projection
Aqueous Inorganic Trt.	7 Comm	118,279	71,321	189,600	NV CA CO WA	5,150 (7,774) 183,100 6,500 (52,000) (11,547)	Disposal Control Services, Inc. newly proposed capacity Pacific Treatment #2 closed Chem Clear Inc. newly proposed capacity Sentry newly proposed capacity Waste-Tech did not complete permit process for this capacity Hanford-mixed waste facilities no longer included

TABLE IV  
CAPACITY ASSURANCE UPDATE (JANUARY 1991)  
EXPLANATION FOR CHANGES IN POTENTIAL FUTURE REGIONAL TD CAPACITY

SARA Category	Type	Capacity Change by SARA Category	Regional Future Capacity		Capacity Change by State	Cause of Capacity Change
			Potential Future Capacity 1989 CAP	1990 Revision		
Aqueous Organic Trt.	8 Comm	229,252	19,321	248,573	217,073 25,000 (7,774)	OSCO newly proposed capacity Pacific Treatment #1 newly proposed capacity Pacific Treatment #2 closed
Other Treatment	9 Comm	15,147	728,581	743,728	6,500 (11,547)	Sentry newly proposed capacity Hanford mixed waste facilities no longer included
Sludge Treatment	10 Comm	753	3,000	3,753	(18,653) 33,800	Pacific Treatment #2 closed Chemical Handling newly proposed capacity
Stabilization	11 Comm	802,200	172,800	975,000	(3,000) 3,753	OSCO permit not submitted Blount newly proposed capacity
Landfill	13 Comm	(2,800,375)	8,224,784	5,424,409	120,000 13,000 842,000 (172,800)	OSCO newly proposed capacity Sentry newly proposed capacity ESII recalculation of capacity Hanford mixed waste facilities no longer included
Other Disposal	15 Comm	33,600	0	33,600	(196,375) (2,096,000) 842,000 (1,350,000)	Capacity now incorporated into revised 1995 projection CECOS permit issued and capacity shifted to revised 1995 projection ESII newly proposed capacity Envirocare permit issued and capacity shifted to revised 1995 projection
					33,600	Chemical Waste Management newly proposed capacity

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EXPLANATION FOR CHANGES IN POTENTIAL FUTURE REGIONAL TD CAPACITY

SARA Category	Type	Capacity Change by SARA Category	Regional Future Capacity		State	Capacity Change by State	Cause of Capacity Change
			Potential 1989 CAP	1990 Revision			
Incineration (Liquid)	4 Cap	0	5,623	5,623	CA	0	CA has not yet provided updated captive capacity numbers
Incineration (Sludge/Solid)	5 Cap	(12,480)	15,120	2,640	CA UT	0 (12,480)	CA has not yet provided updated captive capacity numbers Dugway Proving Ground application withdrawn
Energy Recovery	6 Cap	0	18,758	18,758	CA	0	CA has not yet provided updated captive capacity numbers
Other Treatment	9 Cap	(3,105,800)	3,107,100	1,300	ID NV	(3,107,000) 1,200	Facility not currently listed DOE Nevada Test Site is seeking permit
Other Disposal	15 Cap	(300)	300	0	AK	(300)	Ft. Richardson application withdrawn
Incineration (Liquid)	4 On	(19,720)	19,718	(2)	UT	(19,720)	Tooele Army Depot permit issued; recalculation of capacity; and capacity shifted to revised 1995 projection
Incineration (Solid/Sludge)	5 On	(4,136)	4,136	0	UT	(4,136)	Tooele Army Depot permit issued and capacity shifted to revised 1995 projection
Other Treatment	9 On	12,002	0	12,002	NV	12,000	Fallon Naval Air Station newly proposed capacity Defense Systems Corp. newly proposed capacity
						2	