

PERMIT ATTACHMENT B AUTHORIZED WASTES

B.1 INTRODUCTION

This Permit Attachment authorizes the types and quantities of wastes that the Permittees are allowed to manage, treat and/or store at the Permitted Units.

B.2 AUTHORIZED WASTES FOR THE THERMAL TREATMENT UNIT

Table B-1 below lists the wastes that the Permittees are authorized to manage and treat at the Thermal Treatment Unit (TTU) by open burning. Additional treatment requirements are presented in Permit Part 5. The maximum annual quantity of waste treated at the TTU is limited to 9,500 pounds.

TABLE B-1		
Types of Hazardous Wastes Allowed for Treatment at the TTU		
Solid or Hazardous Waste	EPA Hazardous Waste Number	Process Code^a
Acetone	F003	X01
Acetonitrile	D001	X01
Nitric acid	D002	X01
Silver nitrate	D001, D011	X01
SASN	D001, D003, D011	X01
PETN	D003	X01

a X01 – open burning/open detonation

B.3 AUTHORIZED WASTES FOR TREATMENT AND/OR STORAGE AT THE HAZARDOUS WASTE HANDLING UNIT, THE RADIOACTIVE AND MIXED WASTE MANAGEMENT UNIT, THE AUXILIARY HOT CELL UNIT, AND THE MANZANO STORAGE BUNKERS

Table B-2 below lists the wastes, process codes, and estimated annual quantities that the Permittees are authorized to manage, treat and/or store at the Hazardous Waste Handling Unit (HWHU), the Radioactive and Mixed Waste Management Unit (RMWMU), the Auxiliary Hot Cell Unit (AHCU), and the five Manzano Storage Bunkers (MSB). Additional storage and treatment requirements are presented in Permit Parts 3 and 4.

If the amount of any waste code handled (i.e., managed, treated, or stored) in a calendar year exceeds the amount listed for that waste code in this Permit Attachment (B), the Permittees shall submit a report explaining the situation to the Department and, if the increase in annual quantity is expected to be repeated, shall submit a revised Part A application by April 1 of the following year and shall request a permit modification to revise this Permit Attachment to update the estimated annual quantity for the waste code.

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
1	P001	S01	100
2	P002	S01	100
3	P003	S01	100
4	P004	S01	100
5	P005	S01	100
6	P006	S01	100
7	P007	S01	100
8	P008	S01	100
9	P009	S01	100
10	P010	S01	100
11	P011	S01	100
12	P012	S01	100
13	P013	S01	100
14	P014	S01	100
15	P015	S01	100
16	P016	S01	100
17	P017	S01	100
18	P018	S01	100
19	P020	S01	100
20	P021	S01	100
21	P022	S01	100
22	P023	S01	100
23	P024	S01	100
24	P026	S01	100
25	P027	S01	100
26	P028	S01	100
27	P029	S01	100
28	P030	S01	100
29	P031	S01	100
30	P033	S01	100
31	PO34	S01	100
32	P036	S01	100
33	P037	S01	100
34	P038	S01	100
35	P039	S01	100
36	P040	S01	100
37	P041	S01	100
38	P042	S01	100
39	P043	S01	100
40	P044	S01	100
41	P045	S01	100
42	P046	S01	100
43	P047	S01	100
44	P048	S01	100
45	P049	S01	100
46	P050	S01	100
47	P051	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
48	P054	S01	100
49	P056	S01	100
50	P057	S01	100
51	P058	S01	100
52	P059	S01	100
53	P060	S01	100
54	P062	S01	100
55	P063	S01	100
56	P064	S01	100
57	P065	S01	100
58	P066	S01	100
59	P067	S01	100
60	P068	S01	100
61	P069	S01	100
62	P070	S01	100
63	P071	S01	100
64	P072	S01	100
65	P073	S01	100
66	P074	S01	100
67	P075	S01	100
68	P076	S01	100
69	P077	S01	100
70	P078	S01	100
71	P081	S01	100
72	P082	S01	100
73	P084	S01	100
74	P085	S01	100
75	P087	S01	100
76	P088	S01	100
77	P089	S01	100
78	P092	S01	100
79	P093	S01	100
80	P094	S01	100
81	P095	S01	100
82	P096	S01	100
83	P097	S01	100
84	P098	S01, T04 - Chemical deactivation	150
85	P099	S01	100
86	P101	S01	100
87	P102	S01	100
88	P103	S01	100
89	P104	S01	100
90	P105	S01	100
91	P106	S01	100
92	P108	S01	100
93	P109	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
94	P110	S01	100
95	P111	S01	100
96	P112	S01	100
97	P113	S01	150
98	P114	S01	100
99	P115	S01	100
100	P116	S01	100
101	P118	S01	100
102	P119	S01	100
103	P120	S01	100
104	P121	S01	100
105	P122	S01	100
106	P123	S01	100
107	P127	S01	100
108	P128	S01	100
109	P185	S01	100
110	P188	S01	100
111	P189	S01	100
112	P190	S01	100
113	P191	S01	100
114	P192	S01	100
115	P194	S01	100
116	P196	S01	100
117	P197	S01	100
118	P198	S01	100
119	P199	S01	100
120	P201	S01	100
121	P202	S01	100
122	P203	S01	100
123	P204	S01	100
124	P205	S01	100
125	U001	S01	100
126	U002	S01	500
127	U003	S01	500
128	U004	S01	100
129	U005	S01	100
130	U006	S01	100
131	U007	S01	100
132	U008	S01	100
133	U009	S01	100
134	U010	S01	100
135	U011	S01	100
136	U012	S01	100
137	U014	S01	100
138	U015	S01	100
139	U016	S01	100
140	U017	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
141	U018	S01	100
142	U019	S01	100
143	U020	S01	100
144	U021	S01	100
145	U022	S01	100
146	U023	S01	100
147	U024	S01	100
148	U025	S01	100
149	U026	S01	100
150	U027	S01	100
151	U028	S01	5,000
152	U029	S01	100
153	U030	S01	100
154	U031	S01	500
155	U032	S01	100
156	U033	S01	100
157	U034	S01	100
158	U035	S01	100
159	U036	S01	100
160	U037	S01	500
161	U038	S01	100
162	U039	S01	100
163	U041	S01	100
164	U042	S01	100
165	U043	S01	100
166	U044	S01	1,000
167	U045	S01	100
168	U046	S01	100
169	U047	S01	100
170	U048	S01	100
171	U049	S01	100
172	U050	S01	100
173	U051	S01	100
174	U052	S01	100
175	U053	S01	100
176	U055	S01	100
177	U056	S01	500
178	U057	S01	500
179	U058	S01	100
180	U059	S01	100
181	U060	S01	100
182	U061	S01	2,000
183	U062	S01	100
184	U063	S01	100
185	U064	S01	100
186	U066	S01	100
187	U067	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
188	U068	S01	100
189	U069	S01	100
190	U070	S01	500
191	U071	S01	100
192	U072	S01	100
193	U073	S01	100
194	U074	S01	100
195	U075	S01, T04 – Physical treatment	150
196	U076	S01	100
197	U077	S01	100
198	U078	S01	100
199	U079	S01	100
200	U080	S01	500
201	U081	S01	100
202	U082	S01	100
203	U083	S01	100
204	U084	S01	100
205	U085	S01	100
206	U086	S01	100
207	U087	S01	100
208	U088	S01	100
209	U089	S01	100
210	U090	S01	100
211	U091	S01	100
212	U092	S01	100
213	U093	S01	100
214	U094	S01	100
215	U095	S01	100
216	U096	S01	100
217	U097	S01	100
218	U098	S01	100
219	U099	S01	100
220	U101	S01	100
221	U102	S01, T04 – Stabilization/solidification	100
222	U103	S01	100
223	U105	S01, T04 - Physical treatment	100
224	U106	S01	100
225	U107	S01, T04 – Stabilization/solidification	100
226	U108	S01	100
227	U109	S01	100
228	U110	S01	100
229	U111	S01	100
230	U112	S01	500

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
231	U113	S01	100
232	U114	S01	100
233	U115	S01	100
234	U116	S01	100
235	U117	S01	500
236	U118	S01	100
237	U119	S01	100
238	U120	S01	100
239	U121	S01	100
240	U122	S01	100
241	U123	S01	100
242	U124	S01	100
243	U125	S01	150
244	U126	S01	100
245	U127	S01	100
246	U128	S01	100
247	U129	S01	100
248	U130	S01	100
249	U131	S01	100
250	U132	S01	100
251	U133	S01	500
252	U134	S01	150
253	U135	S01	100
254	U136	S01	100
255	U137	S01	100
256	U138	S01	100
257	U140	S01	500
258	U141	S01	100
259	U142	S01	100
260	U143	S01	100
261	U144	S01	150
262	U145	S01	100
263	U146	S01	100
264	U147	S01	100
265	U148	S01	100
266	U149	S01	100
267	U150	S01	100
268	U151	S01, T04 - Amalgamation, physical treatment	5,000
269	U152	S01	100
270	U153	S01	100
271	U154	S01	500
272	U155	S01	100
273	U156	S01	100
274	U157	S01	100
275	U158	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
276	U159	S01	500
277	U160	S01	100
278	U161	S01	500
279	U162	S01	100
280	U163	S01	100
281	U164	S01	100
282	U165	S01	100
283	U166	S01	100
284	U167	S01	100
285	U168	S01	100
286	U169	S01	100
287	U170	S01	100
288	U171	S01	100
289	U172	S01	100
290	U173	S01	100
291	U174	S01	100
292	U176	S01	100
293	U177	S01	100
294	U178	S01	100
295	U179	S01	100
296	U180	S01	100
297	U181	S01	100
298	U182	S01	100
299	U183	S01	100
300	U184	S01	100
301	U185	S01	100
302	U186	S01	100
303	U187	S01	100
304	U188	S01	100
305	U189	S01	100
306	U190	S01	100
307	U191	S01	100
308	U192	S01	100
309	U193	S01	100
310	U194	S01	100
311	U196	S01	100
312	U197	S01	100
313	U200	S01	100
314	U201	S01	100
315	U202	S01	100
316	U203	S01	100
317	U204	S01	100
318	U205	S01	100
319	U206	S01	100
320	U207	S01	100
321	U208	S01	100
322	U209	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
323	U210	S01	500
324	U211	S01	500
325	U213	S01	150
326	U214	S01	100
327	U215	S01	100
328	U216	S01	100
329	U217	S01	100
330	U218	S01	100
331	U219	S01	100
332	U220	S01	500
333	U221	S01	100
334	U222	S01	100
335	U223	S01	150
336	U225	S01	100
337	U226	S01	500
338	U227	S01	100
339	U228	S01	500
340	U234	S01, T04 - Physical treatment	100
341	U235	S01	100
342	U236	S01	100
343	U237	S01	100
344	U238	S01	100
345	U239	S01	500
346	U240	S01	100
347	U243	S01	100
348	U244	S01	100
349	U246	S01	100
350	U247	S01	100
351	U248	S01	100
352	U249	S01	100
353	U271	S01	100
354	U278	S01	100
355	U279	S01	100
356	U280	S01	100
357	U328	S01	100
358	U353	S01	100
359	U359	S01	100
360	U364	S01	100
361	U367	S01	100
362	U372	S01	100
363	U373	S01	100
364	U387	S01	100
365	U389	S01	100
366	U394	S01	100
367	U395	S01	100
368	U404	S01	100

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
369	U409	S01	100
370	U410	S01	100
371	U411	S01	100
372	F001	S01, T04 – Macro-encapsulation, physical treatment	200,000
373	F002	S01, T04 – Macro-encapsulation, physical treatment	250,000
374	F003	S01, T04 - Macro-encapsulation, physical treatment	275,000
375	F004	S01, T04 – Macro-encapsulation, physical treatment	7,500
376	F005	S01, T04, – Macro-encapsulation, physical treatment	275,000
377	F006	S01	2,000
378	F007	S01	2,000
379	F008	S01	2,000
380	F009	S01	100
381	F010	S01	100
382	F011	S01	100
383	F012	S01	100
384	F027	S01	100
385	F039	S01	50,000
386	D001	S01, T04 - Thermal deactivation, chemical deactivation, physical treatment	75,000
387	D002	S01, T04 - Chemical deactivation, physical treatment	75,000
388	D003	S01, T04 - Thermal deactivation, chemical deactivation, physical treatment	100,000
389	D004	S01, T04 Stabilization/solidification, macroencapsulation, physical treatment	100,000
390	D005	S01, T04 - Chemical deactivation, stabilization/solidification, macroencapsulation, physical treatment	100,000

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
391	D006	S01, T04 – Stabilization/solidification, macroencapsulation, physical treatment	100,000
392	D007	S01, T04 Stabilization/solidification, macroencapsulation, physical treatment	200,000
393	D008	S01, T04 – Stabilization/solidification, macroencapsulation, physical treatment	250,000
394	D009	S01, T04 Stabilization/solidification, macroencapsulation, amalgamation, physical treatment	100,000
395	D010	S01, T04 Stabilization/solidification, macroencapsulation, physical treatment	50,000
396	D011	S01, T04 Stabilization/solidification, macroencapsulation, physical treatment	100,000
397	D012	S01	100
398	D013	S01	100
399	D014	S01	100
400	D015	S01	100
401	D016	S01	100
402	D017	S01	100
403	D018	S01, T04 - Physical treatment, macro-encapsulation	10,000
404	D019	S01, T04 - Physical treatment, macro-encapsulation	2,000
405	D020	S01, T04 - Physical treatment, macro-encapsulation	2,000
406	D021	S01, T04 - Physical treatment, macro-encapsulation	2,000
407	D022	S01, T04 - Physical treatment, macro-encapsulation	5,000

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
408	D023	S01, T04 - Physical treatment, macro-encapsulation	2,000
409	D024	S01, T04 Physical treatment, macro-encapsulation	2,000
410	D025	S01, T04 Physical treatment, macro-encapsulation	2,000
411	D026	S01, T04 Physical treatment, macro-encapsulation	2,000
412	D027	S01, T04 Physical treatment, macro-encapsulation	5,000
413	D028	S01, T04 Physical treatment, macro-encapsulation	5,000
414	D029	S01, T04 Physical treatment, macro-encapsulation	2,000
415	D030	S01, T04 Physical treatment, macro-encapsulation	2,000
416	D031	S01, T04 Physical treatment, macro-encapsulation	2,000
417	D032	S01, T04 Physical treatment, macro-encapsulation	15,000
418	D033	S01, T04 Physical treatment, macro-encapsulation	5,000
419	D034	S01, T04 Physical treatment, macro-encapsulation	5,000
420	D035	S01, T04 Physical treatment, macro-encapsulation	5,000
421	D036	S01, T04 Physical treatment, macro-encapsulation	5,000
422	D037	S01, T04 Physical treatment, macro-encapsulation	2,000
423	D038	S01, T04 Physical treatment, macro-encapsulation	5,000

TABLE B-2			
Types of Hazardous and Mixed Wastes Authorized for Treatment and/or Storage at the HWHU, RMWMU, AHCU, and the MSB			
Line Number	EPA Hazardous Waste No.	Process Code^a	Annual Quantity of Wastes (kg)
424	D039	S01, T04 Physical treatment, macro-encapsulation	15,000
425	D040	S01, T04 Physical treatment, macro-encapsulation	25,000
426	D041	S01, T04 Physical treatment, macro-encapsulation	2,000
427	D042	S01, T04 Physical treatment, macro-encapsulation	5,000
428	D043	S01, T04 Physical treatment, macro-encapsulation	5,000

- a. S01 – storage in containers
 T04 – other treatment, method indicated

NOTE 1 (applicable to Lines 1-428): Waste types and volumes are highly variable due to the large number of one-time activities and the nature of the research and development activities at the Facility. For clarity, each waste number is listed only once. Individual wastes may have more than one number.

NOTE 2 (applicable to lines 1-428): The estimated annual quantity of waste with a particular waste number includes the full quantity of each waste with that number, even if the waste also has other applicable numbers. For example, 10 kg of waste F001 F002 and 10 kg of waste F002 would be listed on this form as 10 kg of F001 and 20 kg of F002.

NOTE 3 (applicable to lines 1-428): The treatment methods listed for each hazardous waste number are the methods that are appropriate for that waste number. Wastes with multiple numbers may undergo one or more types of treatment at the Permitted Units for some or all of the characteristics and/or constituents. For example, wastes containing explosives and metals (e.g., barium, chromium, and lead) with numbers D001, D003, D005, D007, and D008 are treated on site to deactivate the explosive and render them non-ignitable. The quantities of these wastes are included in the quantities shown for D001, D003, D005, D007, and D008. Thermal deactivation is listed as a process for D001 and D003 because on-site treatment at the RMWMU and AHCU addresses these hazardous waste constituents and characteristics. Thermal deactivation is not listed as a process for D005, D007, or D008 because these hazardous waste constituents and characteristics are not treated when the waste is subjected to thermal deactivation.