



Connecticut Department of Energy and Environmental Protection



General Permit
to Construct and Operate a
Commercial Facility for the
Management of Recyclable Materials
and Certain Solid Wastes
(“Commercial GP”)

Hazardous Waste Advisory Committee Meeting
Commercial GP & Appendix D – Construction and Demolition (C&D) Waste
June 14, 2016



Connecticut Department of Energy and Environmental Protection



Registration Form & Instructions

- Follow the same format as other instructions
- Who needs to apply
- How to apply
- Specific info for each part of the form
- Specific info for supporting docs
- Certifications
- Available resources

[Link to Solid Waste Permits webpage](#)



Commercial GP - Structure

Two primary aspects:

1. Administrative

- Commercial GP Sections 1 through 8
 - Content including registration requirements and registrant obligations

2. Operational/Technical

- Appendices A through G





Appendix Structure

Two primary aspects:

1. Part I - General Operating Conditions - Primarily consistent for all Appendices
 - Includes facility design , local approval, GP requirements and operating requirements
2. Part II - Capacity Limits and Management Requirements for each material
 - Maximum Receipt and Storage Capacities
 - Management Requirements





Commercial GP – Sections 1-8

- Definitions derived from Gen'l Statutes, Regs., literature, EPA, Industry
- Authorization for conducting regulated activities
 - Eligible activities
 - Recycling GP Activities -> Appendix C and F
 - 5 additional GPs presented as Appendices
 - Appendix = Facility Category = O&M Plan
 - May choose up to 5 facility categories to be authorized at any one site





Commercial GP – Sections 1-8

Registration Requirements

- Who shall file Registration – In the business of SW management and/or commercial service provider (e.g. Basement clean-out contractor, landscaper, home improvement contractor)
- Who must Notify and Report – anyone **ELSE** who generates solid waste and recyclables at a different location and transports it to a central aggregation point. (Retail, Utility, Industrial, Institution) and Tier I for both Clean Wood and C&D





Appendices – Part I

General Operating Conditions – Baseline conditions

- A. Facility design and management
- B. Facility Operated by Contractors
- E. Operating Requirements
 - Management of Authorized Wastes
 - Documents available at the facility
 - Access and Traffic Control
 - Facility Personnel and Training
 - Who can use the facility
 - Info provided to users of the facility
 - Sanitation and maintenance
 - Transfers from the facility
 - Management of unauthorized and unprocessable recyclables and other solid wastes
 - Record-keeping and reporting requirement
- C. Local Approvals
- D. Requirements of the GP
- Emergency incident(s), reporting emergencies to DEEP
- Surface water and groundwater management
- On-site roads, outdoor operational areas
- Days and hours of operation
- Fire prevention
- Safety
- Containers and covers
- Fire protection
- Emergency planning





Appendix D. C&D– Part I

General Operating Conditions

Specific language for Part I conditions for C&D mgmt. facilities:

- E.2. Docs at Facility – Equipment List & Bedbug Mitigation Plan
- E.9. Management of Unauth. Waste – Suspected Loads with ACM content and subsequent obligations
- E.10.b Reporting - Recovery Rate for non-designated Recyc.Items
- E.18. Quarterly Compliance Audits – 1st and 3rd by P.E. or consultant; 2nd and 4th by C.O., P.E. or consultant
- E.19. Air Monitoring – w/in enclosed building; ¼ ly for first two years of operations; thereafter annually during

2nd ¼





Appendix D. C&D– Part II

Materials

- Construction and Demolition Waste and components authorized for storage

Capacities for Processing (Receipt) of all materials

- Tier I - 10 TPD
- Tier II – 20 TPD
- Tier III – 50 TPD



Appendix D. C&D– Part II

Type of C&D wastes, Recyclables and other Solid wastes	Part II.C. Management Requirements No.	Maximum Volume	Waste Stored Under Cover ¹
Appliances with CFCs (freon)	3	25 units	no
Asphalt roofing shingles –residential only	10	120 cubic yards (cy)	yes
Carpet	11	120 cy	yes
Construction & Demolition Waste (C&D) Unprocessed	1	150 cy	yes
Recyclable Items sorted from C&D waste (not received as source separated Recyclable items)		300 cy	
C&D Processed	1	120 cy	yes
Furniture (for reuse and recycling)	12	120 cy	yes
Gypsum Wallboard	9	120 cy	yes
Mattresses Unprocessed	8	1,900 units	yes
Processed		1,000 cy	
Metal, Scrap	3	200 cy (40 cy may be stored outdoors in piles)	yes
Oversized Municipal Solid Waste	2	40 cy	yes
Cardboard (boxboard, color ledger paper, magazines, Newspaper, Office paper, and residential high-grade white paper)	4	20 cy	yes
Tires, Scrap	5	20 cy	yes
Wood, Clean - unprocessed (No Processing allowed)	6	1,000 cy	no
Wood, Treated (painted, creosoted, etc.)	7	100 cy	yes
Waste, Unauthorized and Unprocessable	Part I E.9. of this Appendix	40 cy (does not include capacitors, ballasts or propane tanks with valves)	yes
Capacitors and Ballasts	14	2 x 55 gal drums	
Propane tanks with valves	13	10 units	





Appendix D. C&D– Part II

Material Specific Management authorizations - Processing varies by material type

- C&D
- Scrap Metal & CFC Appliances – removal of CFCs
- OMSW/Mattresses/Furniture – dismantling
- Fiber
- Clean Wood - no VR processing
- ARS – no VR processing

Not authorized for Receipt

- Propane tanks w/ valves; Scrap Metal w/ Capacitors or Fluorescent Light Ballasts; Fluorescent LBs; ACM; PCB Bulk Waste; etc.



FA for Appendix D. C&D Waste

Surety Calculation Sheet Appendix D					
Material	Volume (cy)	Density (tons/cy)	Tons	Disposal cost per ton (\$)	Surety amount with 15% contingency (tonsx\$1.15)
Appliances (containing CFCs)	25	0.135	3.38	90	349.3125
Asphalt Roofing Shingle Waste (ARSW)	120	0.22	26.40	90	2732.4
Carpet - unprocessed ¹	120	0.076	9.12	90	943.92
Construction and Demolition(C&D) Waste, Unprocessed	150	0.31	46.50	90	4812.75
Construction and Demolition (C&D) Waste, Processed	120	0.33	39.60	90	4098.6
Recyclable Items - sorted from C&D Waste	300	0.31	93.00	90	9625.5
Furniture, Unprocessed	120	0.04	4.80	90	496.8
Gypsum Wallboard	120	0.25	30.00	90	3105
Matresses, Unprocessed	2148	0.027	58.00	90	6003
Matresses, Processed ²	1000	0.31	310.00	25	8912.5
Metal, scrap	200	0.33	66.00	50	3795
Oversized MSW	40	0.25	10.00	90	1035
Cardboard, Processed	20	0.78	15.60	25	448.5
Tires, scrap	20	0.1	2.00	50	115
Wood, clean - unprocessed	1000	0.25	250.00	50	14375
Wood, treated	100	0.25	25.00	50	1437.5
				TOTAL	58260.15
¹ unprocessed Carpet assumed to consist of 50% each textile and padding. Density calculated as the average of the two respective densities, i.e. (0.12+0.031)/2					



Commercial GP and the CMMS

- The Commercial GP Appendix D requires that C&D be processed to recover recyclable items
- Condition No. Part I. E. 10 requires that the Registrant achieve a 40% recovery rate from the C&D received at the facility
- Year end report of materials and quantities recovered - due July 31 each year.





- Questions?
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