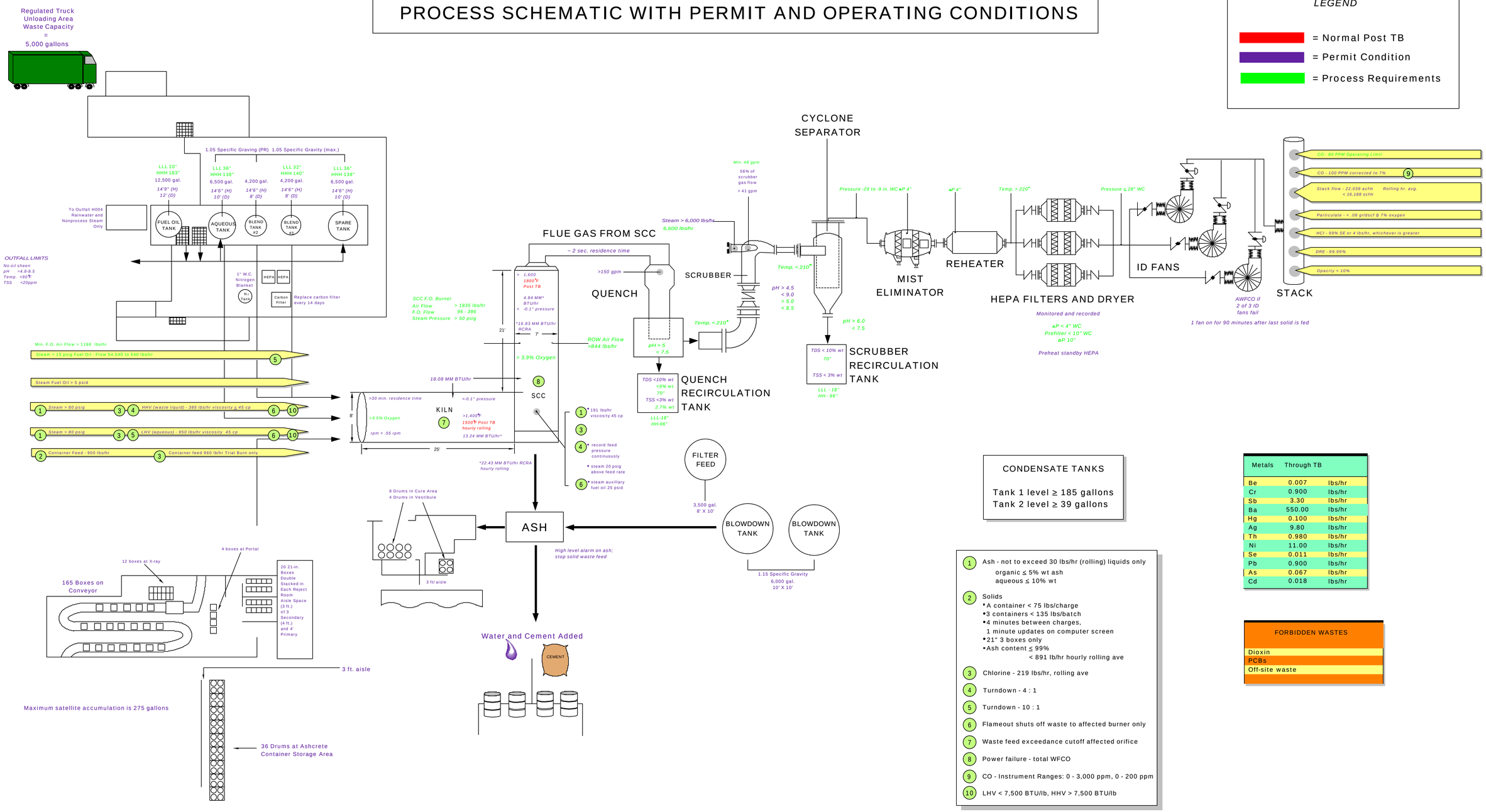
ATTACHMENT W

CONSOLIDATED INCINERATION FACILITY
PERMIT CONDITIONS SCHEMATIC

(1 Sheet)

PROCESS SCHEMATIC WITH PERMIT AND OPERATING CONDITIONS



CONDENSATE TANKS

Tank 1 level ≥ 185 gallons
Tank 2 level ≥ 39 gallons

Metals	Through TB	
Be	0.007	lbs/hr
Cr	0.900	lbs/hr
Sb	3.30	lbs/hr
Ba	550.00	lbs/hr
Hg	0.100	lbs/hr
Ag	9.80	lbs/hr
Th	0.980	lbs/hr
Ni	11.00	lbs/hr
Se	0.011	lbs/hr
Pb	0.900	lbs/hr
As	0.067	lbs/hr
Cd	0.018	lbs/hr

FORBIDDEN WASTES
Dioxin
PCBs
Off-site waste

1. Ash - not to exceed 30 lbs/hr (rolling) liquids only
   organic ≤ 5% wt ash
   aqueous ≤ 10% wt
2. Solids
   - A container < 75 lbs/charge
   - 3 containers < 135 lbs/batch
   - 4 minutes between charges, 1 minute updates on computer screen
   - 21" 3 boxes only
   - Ash content ≤ 99%
     < 891 lb/hr hourly rolling ave
3. Chlorine - 219 lbs/hr, rolling ave
4. Turndown - 4 : 1
5. Turndown - 10 : 1
6. Flameout shuts off waste to affected burner only
7. Waste feed exceedance cutoff affected orifice
8. Power failure - total WFCO
9. CO - Instrument Ranges: 0 - 3,000 ppm, 0 - 200 ppm
10. LHV < 7,500 BTU/lb, HHV > 7,500 BTU/lb

SOLID WASTE FEED LIMITS (2)

Heat Value (BTU/lb)	≤13,400
Ash Content (wt %)	≤99
Chlorine Content (wt %)	≤55
Box Radiation Rate (MREM/hr @ 3 in)	≤10
Box Weight (lbs)	>7 and <50
Maximum of 135 lbs/charge	

LIQUID WASTE FEED LIMITS (10)

Parameter	HHV	LHV
Chlorine Content (wt %)	≤ 30.0	≤ 4.0
Viscosity (centipoise)	0≥ .45	.3 - 45
Specific Gravity	≤ 1.50	≤ 1.05

OTHER EQUIPMENT OPERATING CONDITIONS

Main Exhaust Fans	> 15,000 CFM
Ram Feed Enclosure Pressure	> 0.5 in. WC Vacuum
Box Pusher Enclosure Pressure	> 0.1 in WC Vacuum
Nitrogen Fire System Pressure	> 5 psig
Combustible Gas Monitors	< 25% LFL
Nitrogen System Pressure	> 70 psig

UNITED STATES DEPARTMENT OF ENERGY

CONSOLIDATED INCINERATOR FACILITY SCHEMATIC
CITY, STATE

Tetra Tech Environmental Management, Inc.

SOURCE: MODIFIED FROM THE UNITED STATES DEPARTMENT OF ENERGY