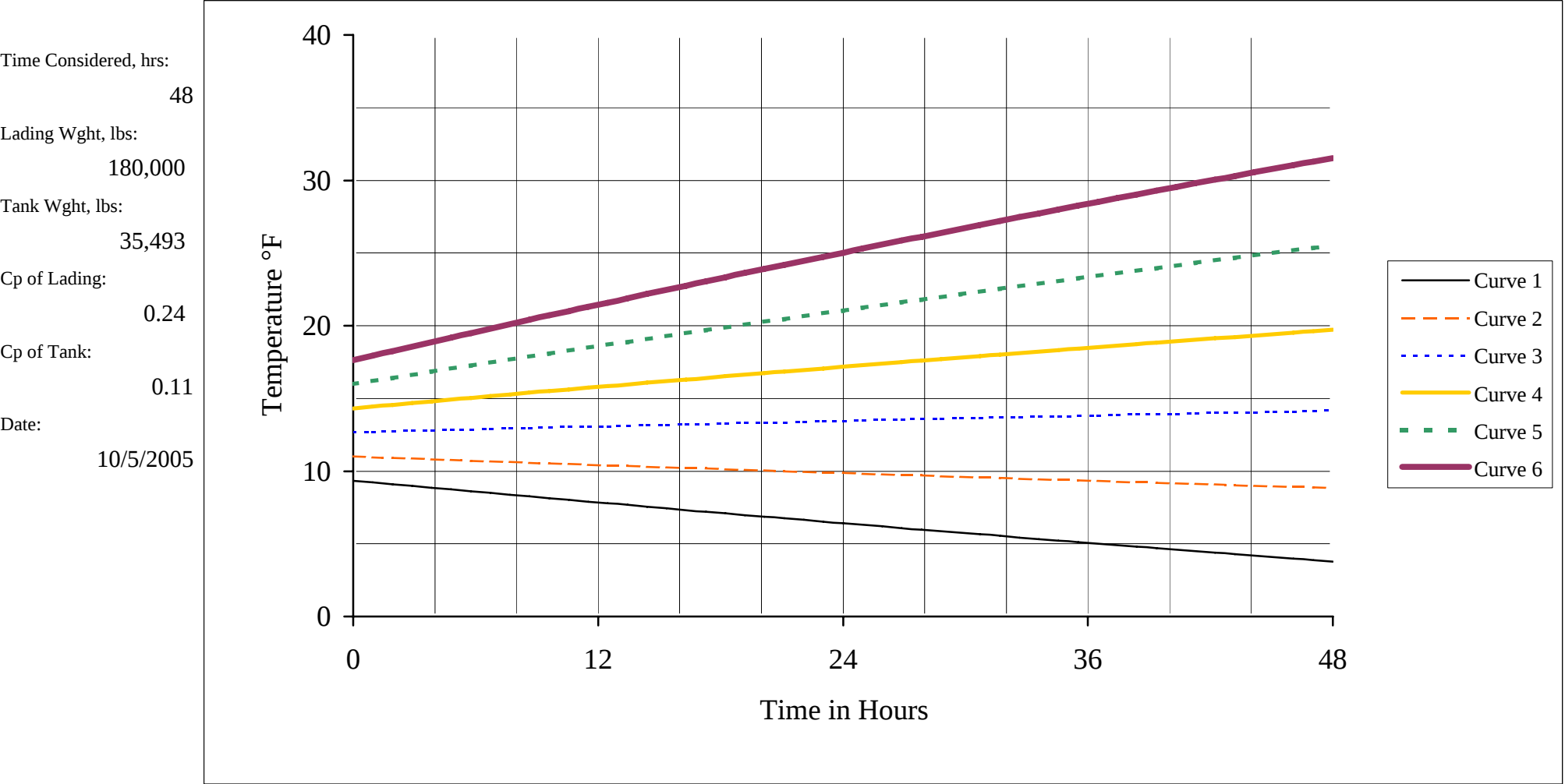


Appendix 3
Hazardous Materials Group Factual
10/7/05 Addendum
Revised Chlorine Temperature Estimate Chart

UTLX 900270 carrying Chlorine, at various constant ambient temperatures



Curve	Ambient	Load Temp,	Car Temp.	Final	Insulation	Insulation	Insulation	External UA	UA of Heaters	Steam	Heat Req'd
	Temp. °F	Initial, °F	Initial, °F	Temp. °F	Type	Thickness, in.	Area, mean ft ²	Btu/hr-F°	Btu/hr-F°	Temp. °F	Btu/hr
1	-20	12	-20	3.8	FG/FF	4	1,210	177.3	NA	NA	NA
2	0	12	0	8.8	FG/FF	4	1,210	177.3	NA	NA	NA
3	20	12	20	14.2	FG/FF	4	1,210	177.3	NA	NA	NA
4	40	12	40	19.7	FG/FF	4	1,210	177.3	NA	NA	NA
5	60	12	60	25.5	FG/FF	4	1,210	177.3	NA	NA	NA
6	80	12	80	31.5	FG/FF	4	1,210	177.3	NA	NA	NA