

Table 7-4
UPPER SHELF ENERGY ANALYSIS FOR
UNIT 2 BELTLINE MATERIALS, CURRENT POWER

LOCATION	HEAT	TES TEM	INITIAL LONGIT. USE	INITIAL TRANS. USE	%Cu	32 EFY FLUENCE ($\times 10^{-17}$)	% DECR. USE	32 EFY TRANS. USE
PLATES:								
Lower	6C1053-1-1	40*	117	76.1	0.10	4	9	69.2
	6C980-1-1	40*	144.5	93.9	0.10	4	9	85.5
	6C956-1-1	40*	192.5	125.1	0.11	4	9	113.9
Low-Int.	C2929-1	USE	129	83.9	0.13	4.9	11	74.6
	C2433-2	10*	74	48.1	0.10	4.9	9.5	43.5
	C2421-3	10*	80	52.0	0.13	4.9	11	46.3
WELDS:								
	624263	40*		73	0.06	4.9	10	65.7
	09M057	10*		44	0.03	4.9	8.5	40.3
	629616	USE		114	0.04	4.9	9	103.7
	411L3071	USE		126	0.03	4.9	8.5	115.3
	494K2351	USE		192	0.04	4.9	9	174.7
	402K9171	USE		134	0.03	4.9	8.5	122.6
	401S0371	USE		127	0.03	4.9	8.5	116.2
	412P3611	USE		140	0.03	4.9	8.5	128.1
	402C4371	10*		92	0.02	4.9	8	84.6
	659N315	USE		137	0.04	4.9	9	124.7

* Transition data used, since USE data not available.
Initial values shown are highest Charpy energy at 10°F or 40°F,
except for C2929-1, which is USE from surveillance baseline data.
Highest Charpy energy at 10°F for C2929-1 is 102 ft-lb.

Table 7-5
UPPER SHELF ENERGY ANALYSIS FOR
UNIT 2 BELTLINE MATERIALS, UPRATED POWER

LOCATION	HEAT	TEST TEMP	INITIAL LONGIT. USE	INITIAL TRANS. USE	%Cu	32 EFY FLUENCE (x10 ¹⁷)	% DECR. USE	32 EFY TRANS. USE
PLATES:								
Lower	6C1053-1-1	40*	117	76.1	0.10	4.4	9	69.2
	6C980-1-1	40*	144.5	93.9	0.10	4.4	9	85.5
	6C956-1-1	40*	192.5	125.1	0.11	4.4	9	113.9
Low-Int.	C2929-1	USE	129	83.9	0.13	5.4	11	74.6
	C2433-2	10*	74	48.1	0.10	5.4	9.5	43.5
	C2421-3	10*	80	52.0	0.13	5.4	11	46.3
WELDS:								
	624263	40*		73	0.06	5.4	10	65.7
	09M057	10*		44	0.03	5.4	8.5	40.3
	629616	USE		114	0.04	5.4	9	103.7
	411L3071	USE		126	0.03	5.4	8.5	115.3
	494K2351	USE		192	0.04	5.4	9	174.7
	402K9171	USE		134	0.03	5.4	8.5	122.6
	401S0371	USE		127	0.03	5.4	8.5	116.2
	412P3611	USE		140	0.03	5.4	8.5	128.1
	402C4371	10*		92	0.02	5.4	8	84.6
	659N315	USE		137	0.04	5.4	9	124.7

* Transition data used, since USE data not available.
Initial values shown are highest Charpy energy at 10°F or 40°F,
except for C2929-1, which is USE from surveillance baseline data.
Highest Charpy energy at 10°F for C2929-1 is 102 ft-lb.