National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
2101 NASA Parkway
Houston, Texas 77058-3696

February 4, 2009

Reply to Attn of: EA3-09-005

TO: AMS Records

FROM: AMS Project Manager

SUBJECT: Radiator Interface Displacements

The enclosed maximum displacements should be used for analyzing the AMS radiator interfaces to the Unique Support Structure. The node numbers match with the current version of the AMS structural math model.

Sincerely,

Trent D. Martin

ID	Load Case	TX (in)	TY (in)	TZ (in)	RX (rad)	RY (rad)	RZ (rad)
200601	1023	1.93E-02	-9.05E-02	-1.04E-03	-7.88E-05	-1.52E-03	4.03E-04
200602	1023	-4.21E-04	-7.81E-02	1.63E-02	2.51E-04	-2.05E-03	-3.74E-04
200603	1023	8.82E-03	-6.88E-02	1.04E-01	-1.16E-03	-1.81E-03	2.70E-04
200604	1023	-1.13E-02	-8.02E-02	1.86E-01	-8.48E-04	-2.08E-03	-1.79E-04
216101	1023	4.66E-03	-8.71E-02	1.98E-01	-2.49E-04	-2.44E-03	-1.44E-04
216102	1023	3.80E-03	-8.60E-02	1.92E-01	-5.81E-04	-2.17E-03	-1.60E-04
216103	1023	8.15E-03	-7.55E-02	6.94E-03	3.52E-04	-2.40E-03	-5.53E-04
216104	1023	1.22E-02	-7.62E-02	1.39E-02	3.07E-04	-2.16E-03	-4.41E-04
216105	1023	6.38E-02	-9.78E-02	1.95E-01	-6.64E-04	-2.31E-03	-1.22E-05
216106	1023	1.05E-01	-1.15E-01	1.80E-01	-5.76E-04	-1.57E-03	4.49E-05
216107	1023	6.70E-02	-7.56E-02	3.34E-04	-5.18E-04	-2.40E-03	-4.18E-04
216108	1023	1.22E-01	-8.29E-02	-7.06E-03	5.69E-04	-2.60E-03	4.17E-04
217001	1023	1.50E-02	-7.91E-02	5.99E-02	-2.36E-03	-1.40E-03	5.28E-04
217002	1023	1.99E-02	-7.89E-02	9.17E-02	-1.71E-03	-1.76E-03	4.02E-04
217003	1023	1.70E-02	-9.12E-02	9.15E-04	2.64E-05	-1.18E-03	7.98E-04
217004	1023	2.63E-02	-9.10E-02	-8.82E-04	3.91E-05	-1.48E-03	6.31E-04
217005	1023	5.13E-02	-1.22E-01	5.85E-02	-1.58E-03	-1.53E-03	6.27E-04
217006	1023	9.88E-02	-1.43E-01	9.15E-02	-1.27E-03	-1.47E-03	1.79E-04
217007	1023	4.68E-02	-9.55E-02	6.04E-03	-5.64E-04	-1.49E-03	6.52E-04
217008	1023	9.86E-02	-1.02E-01	1.44E-02	3.48E-04	-1.73E-03	7.43E-04
200601	1042	-1.59E-01	1.62E-01	3.45E-02	1.05E-04	1.20E-03	-1.81E-03
200602	1042	-1.66E-01	1.26E-01	7.63E-02	-9.87E-04	1.51E-03	2.04E-03
200603	1042	-1.58E-01	1.38E-01	-2.69E-02	-6.19E-04	6.15E-04	-1.60E-03
200604	1042	-1.65E-01	2.12E-01	4.83E-02	-9.42E-04	6.28E-04	1.76E-03
216101	1042	-1.05E-01	2.01E-01	1.11E-01	-3.50E-03	8.23E-04	3.34E-03
216102	1042	-1.51E-01	2.01E-01	6.36E-02	-2.32E-03	7.43E-04	2.52E-03
216103	1042	-1.09E-01	1.17E-01	5.47E-02	1.85E-03	7.64E-04	4.35E-03
216104	1042	-1.58E-01	1.22E-01	7.62E-02	5.88E-04	1.44E-03	2.68E-03
216105	1042	-1.34E-01	1.46E-01	1.20E-01	-1.54E-03	1.56E-03	2.94E-03
216106	1042	-2.11E-01	1.23E-01	8.08E-02	-2.11E-03	4.73E-04	1.01E-03
216107	1042	-1.31E-01	1.41E-01	5.11E-02	7.77E-04	1.30E-03	3.67E-03
216108	1042	-2.06E-01	1.41E-01	6.76E-02	4.31E-05	8.41E-04	3.10E-04
217001	1042	-1.01E-01	1.34E-01	-2.23E-02	6.29E-04	1.24E-03	-3.20E-03
217002	1042	-1.46E-01	1.35E-01	-2.79E-02	1.10E-04	9.26E-04	-2.34E-03
217003	1042	-1.03E-01	1.62E-01	1.68E-02	-9.44E-04	1.12E-03	-4.03E-03
217004	1042	-1.50E-01	1.61E-01	3.09E-02	-6.66E-04	1.34E-03	-2.51E-03
217005	1042	-1.38E-01	1.38E-01	-2.13E-02	1.48E-04	1.86E-03	-2.73E-03
217006	1042	-2.23E-01	1.31E-01	-2.50E-02	-2.40E-04	1.92E-03	-7.36E-04
217007	1042	-1.30E-01	1.41E-01	1.23E-02	-4.20E-04	1.40E-03	-3.11E-03
217008	1042	-2.00E-01	1.26E-01	2.04E-02	-9.53E-04	1.21E-03	-1.30E-03

ID	Load Case	TX (in)	TY (in)	TZ (in)	RX (rad)	RY (rad)	RZ (rad)
200601	1055	-1.60E-01	-6.21E-02	6.37E-02	5.57E-04	9.21E-04	-1.69E-03
200602	1055	-1.76E-01	-1.06E-01	7.85E-02	-3.36E-04	-1.11E-05	1.79E-03
200603	1055	-1.58E-01	-8.98E-02	5.30E-02	-1.04E-03	-3.58E-04	-1.31E-03
200604	1055	-1.75E-01	-5.58E-02	1.35E-01	-9.42E-04	-1.08E-03	1.38E-03
216101	1055	-1.06E-01	-6.53E-02	1.67E-01	-1.40E-03	-7.96E-04	3.20E-03
216102	1055	-1.51E-01	-6.47E-02	1.45E-01	-1.38E-03	-9.89E-04	2.18E-03
216103	1055	-1.08E-01	-1.09E-01	4.68E-02	1.89E-03	-6.86E-04	4.13E-03
216104	1055	-1.57E-01	-1.06E-01	7.36E-02	1.05E-03	-4.88E-05	2.50E-03
216105	1055	-9.60E-02	-9.25E-02	1.67E-01	-1.18E-03	1.17E-04	3.01E-03
216106	1055	-1.58E-01	-1.17E-01	1.37E-01	-1.27E-03	6.19E-04	1.34E-03
216107	1055	-9.32E-02	-8.31E-02	3.64E-02	2.15E-04	-2.05E-04	3.43E-03
216108	1055	-1.42E-01	-8.19E-02	4.42E-02	1.13E-03	-5.44E-04	1.52E-03
217001	1055	-9.98E-02	-9.76E-02	2.80E-02	-1.17E-03	5.31E-04	-2.92E-03
217002	1055	-1.41E-01	-9.69E-02	4.50E-02	-9.58E-04	-6.79E-05	-1.93E-03
217003	1055	-1.04E-01	-5.79E-02	4.25E-02	-1.60E-03	8.70E-04	-4.13E-03
217004	1055	-1.51E-01	-6.12E-02	6.15E-02	-7.11E-04	1.08E-03	-2.34E-03
217005	1055	-1.19E-01	-1.21E-01	2.82E-02	-9.24E-04	1.10E-03	-2.31E-03
217006	1055	-1.72E-01	-1.34E-01	4.55E-02	-7.34E-04	7.65E-04	-7.67E-04
217007	1055	-1.24E-01	-8.93E-02	4.34E-02	-1.30E-03	8.91E-04	-3.17E-03
217008	1055	-1.73E-01	-1.04E-01	6.67E-02	-2.13E-04	2.57E-04	-5.05E-05
200601	2004	5.61E-02	6.85E-02	4.57E-02	-6.85E-04	-2.44E-03	7.15E-04
200602	2004	2.91E-02	5.95E-02	7.73E-02	2.56E-04	-2.02E-03	-7.60E-04
200603	2004	4.35E-02	1.08E-01	1.91E-01	-1.28E-03	-2.80E-03	5.81E-04
200604	2004	1.94E-02	4.97E-02	2.69E-01	-4.43E-04	-2.52E-03	-6.61E-04
216101	2004	2.27E-02	4.74E-02	2.48E-01	1.62E-03	-2.93E-03	-8.88E-04
216102	2004	3.23E-02	4.90E-02	2.67E-01	6.36E-04	-2.70E-03	-8.68E-04
216103	2004	2.45E-02	6.23E-02	4.94E-02	1.73E-03	-2.24E-03	-1.15E-03
216104	2004	3.78E-02	6.25E-02	7.19E-02	9.11E-04	-2.10E-03	-9.26E-04
216105	2004	9.44E-02	6.29E-02	2.40E-01	7.11E-05	-2.83E-03	-7.70E-04
216106	2004	1.63E-01	5.23E-02	2.45E-01	4.30E-04	-1.83E-03	-2.99E-04
216107	2004	7.93E-02	8.06E-02	4.25E-02	2.73E-04	-2.46E-03	-9.29E-04
216108	2004	1.58E-01	7.45E-02	5.26E-02	6.35E-04	-3.53E-03	-8.21E-04
217001	2004	4.39E-02	9.58E-02	1.17E-01	-4.45E-03	-2.38E-03	1.34E-03
217002	2004	5.86E-02	9.51E-02	1.73E-01	-2.68E-03	-2.84E-03	9.14E-04
217003	2004	4.75E-02	6.10E-02	2.57E-02	-1.06E-03	-1.96E-03	2.03E-03
217004	2004	6.77E-02	6.28E-02	3.98E-02	-7.76E-04	-2.42E-03	1.11E-03
217005	2004	1.05E-01	2.08E-02	1.11E-01	-2.49E-03	-2.43E-03	1.19E-03
217006	2004	1.67E-01	-5.07E-03	1.61E-01	-1.78E-03	-1.21E-03	4.95E-05
217007	2004	9.55E-02	4.24E-02	2.22E-02	-4.17E-04	-2.29E-03	1.63E-03
217008	2004	1.73E-01	3.64E-02	3.09E-02	-7.80E-04	-2.78E-03	2.50E-04

ID	Load Case	TX (in)	TY (in)	TZ (in)	RX (rad)	RY (rad)	RZ (rad)
200601	2005	4.66E-02	8.82E-02	8.70E-02	-7.98E-04	-8.43E-04	5.64E-04
200602	2005	4.60E-02	5.95E-02	1.25E-01	2.51E-04	-6.02E-04	-2.86E-04
200603	2005	3.62E-02	1.26E-01	1.43E-01	-1.33E-03	-1.24E-03	4.32E-04
200604	2005	3.45E-02	8.77E-02	2.30E-01	-6.98E-04	-1.06E-03	-2.12E-04
216101	2005	3.20E-02	8.30E-02	2.25E-01	7.60E-04	-1.77E-03	-7.55E-04
216102	2005	3.98E-02	8.44E-02	2.32E-01	4.40E-05	-1.24E-03	-4.47E-04
216103	2005	3.50E-02	6.30E-02	8.16E-02	2.87E-03	-1.04E-03	-1.33E-03
216104	2005	4.77E-02	6.35E-02	1.17E-01	1.39E-03	-6.82E-04	-5.12E-04
216105	2005	7.57E-02	8.74E-02	2.20E-01	-1.88E-04	-1.70E-03	-5.29E-04
216106	2005	1.12E-01	7.41E-02	2.17E-01	-1.09E-04	-9.62E-04	6.42E-05
216107	2005	5.94E-02	9.51E-02	7.01E-02	4.84E-04	-1.13E-03	-1.02E-03
216108	2005	1.05E-01	8.62E-02	8.63E-02	1.00E-03	-2.41E-03	-7.91E-04
217001	2005	2.98E-02	1.14E-01	8.38E-02	-3.28E-03	-9.48E-04	9.35E-04
217002	2005	4.10E-02	1.14E-01	1.27E-01	-2.25E-03	-1.27E-03	6.40E-04
217003	2005	3.24E-02	7.93E-02	5.05E-02	-2.02E-03	-5.17E-04	1.35E-03
217004	2005	4.77E-02	8.06E-02	7.77E-02	-1.37E-03	-8.12E-04	8.03E-04
217005	2005	5.40E-02	5.66E-02	8.01E-02	-2.00E-03	-9.02E-04	8.87E-04
217006	2005	8.57E-02	3.04E-02	1.22E-01	-1.69E-03	-1.36E-04	4.33E-04
217007	2005	4.50E-02	4.62E-02	4.44E-02	-7.98E-04	-8.52E-04	1.11E-03
217008	2005	9.22E-02	3.68E-02	6.18E-02	-1.23E-03	-1.90E-03	4.76E-04
200601	2032	7.02E-02	-5.22E-02	-8.83E-02	-3.65E-04	-2.92E-03	1.02E-03
200602	2032	3.12E-02	1.82E-03	-5.73E-02	-8.89E-05	-2.65E-03	-1.09E-03
200603	2032	5.39E-02	-2.92E-02	5.90E-02	-9.67E-04	-2.11E-03	4.64E-04
200604	2032	1.95E-02	-2.37E-02	1.42E-01	-9.67E-04	-2.15E-03	-6.00E-04
216101	2032	2.19E-02	-3.22E-02	1.70E-01	-1.30E-03	-2.52E-03	-8.36E-04
216102	2032	3.10E-02	-3.12E-02	1.51E-01	-1.11E-03	-2.24E-03	-6.95E-04
216103	2032	2.56E-02	4.58E-04	-3.61E-02	-1.33E-03	-2.89E-03	-1.35E-03
216104	2032	4.16E-02	-7.11E-04	-5.27E-02	-7.92E-04	-2.81E-03	-1.30E-03
216105	2032	8.52E-02	-5.76E-02	1.71E-01	-9.15E-04	-2.67E-03	-7.29E-04
216106	2032	1.57E-01	-7.45E-02	1.51E-01	-1.01E-03	-2.72E-03	-5.62E-04
216107	2032	9.69E-02	-2.27E-02	-3.55E-02	-9.19E-04	-2.96E-03	-1.13E-03
216108	2032	1.78E-01	-3.40E-02	-5.53E-02	-5.17E-04	-2.69E-03	-1.87E-04
217001	2032	4.99E-02	-3.83E-02	3.03E-02	-1.30E-03	-2.07E-03	1.35E-03
217002	2032	6.51E-02	-3.74E-02	4.95E-02	-1.19E-03	-2.13E-03	7.76E-04
217003	2032	5.63E-02	-5.41E-02	-5.74E-02	2.13E-03	-2.32E-03	2.42E-03
217004	2032	8.19E-02	-5.21E-02	-8.45E-02	9.68E-04	-2.88E-03	1.50E-03
217005	2032	1.06E-01	-6.48E-02	3.01E-02	-1.04E-03	-2.51E-03	1.24E-03
217006	2032	1.77E-01	-8.51E-02	5.35E-02	-1.09E-03	-2.32E-03	5.01E-05
217007	2032	1.12E-01	-2.71E-02	-4.76E-02	3.12E-04	-2.53E-03	1.83E-03
217008	2032	1.90E-01	-3.16E-02	-5.61E-02	7.63E-04	-1.82E-03	2.97E-04

ID	Load Case	TX (in)	TY (in)	TZ (in)	RX (rad)	RY (rad)	RZ (rad)
200601	4004	8.44E-02	9.50E-02	5.36E-02	-7.79E-04	-3.04E-03	9.15E-04
200602	4004	4.68E-02	8.52E-02	8.48E-02	3.25E-04	-2.33E-03	-1.13E-03
200603	4004	6.92E-02	1.40E-01	2.28E-01	-1.20E-03	-3.43E-03	7.86E-04
200604	4004	3.67E-02	6.16E-02	3.02E-01	-3.08E-04	-2.91E-03	-9.97E-04
216101	4004	3.31E-02	6.09E-02	2.67E-01	2.36E-03	-3.35E-03	-1.34E-03
216102	4004	4.90E-02	6.28E-02	2.97E-01	1.11E-03	-3.13E-03	-1.31E-03
216103	4004	3.46E-02	8.87E-02	5.44E-02	1.88E-03	-2.47E-03	-1.59E-03
216104	4004	5.44E-02	8.88E-02	7.87E-02	1.00E-03	-2.42E-03	-1.36E-03
216105	4004	1.16E-01	8.68E-02	2.57E-01	3.56E-04	-3.31E-03	-1.20E-03
216106	4004	2.03E-01	7.90E-02	2.70E-01	8.37E-04	-2.22E-03	-4.62E-04
216107	4004	9.54E-02	1.09E-01	4.79E-02	3.97E-04	-2.80E-03	-1.32E-03
216108	4004	1.92E-01	1.03E-01	6.07E-02	6.30E-04	-4.07E-03	-1.29E-03
217001	4004	6.51E-02	1.28E-01	1.43E-01	-5.38E-03	-3.00E-03	1.93E-03
217002	4004	8.68E-02	1.27E-01	2.09E-01	-3.01E-03	-3.50E-03	1.25E-03
217003	4004	7.00E-02	8.63E-02	3.11E-02	-1.26E-03	-2.50E-03	2.92E-03
217004	4004	9.84E-02	8.87E-02	4.73E-02	-8.50E-04	-3.07E-03	1.48E-03
217005	4004	1.43E-01	3.90E-02	1.35E-01	-2.88E-03	-3.15E-03	1.59E-03
217006	4004	2.20E-01	1.28E-02	1.92E-01	-1.88E-03	-1.59E-03	-1.95E-04
217007	4004	1.30E-01	6.56E-02	2.56E-02	-3.23E-04	-2.81E-03	2.36E-03
217008	4004	2.26E-01	6.21E-02	3.26E-02	-9.12E-04	-3.22E-03	2.55E-04
200601	4005	6.60E-02	1.35E-01	1.01E-01	-1.04E-03	-9.26E-04	8.92E-04
200602	4005	8.00E-02	9.98E-02	1.50E-01	2.06E-04	-5.06E-04	-4.17E-04
200603	4005	5.46E-02	1.90E-01	1.63E-01	-1.47E-03	-1.30E-03	6.95E-04
200604	4005	6.62E-02	1.36E-01	2.58E-01	-8.77E-04	-1.09E-03	-3.50E-04
216101	4005	5.44E-02	1.31E-01	2.45E-01	1.48E-03	-2.01E-03	-1.32E-03
216102	4005	6.94E-02	1.32E-01	2.60E-01	2.70E-04	-1.34E-03	-7.71E-04
216103	4005	5.80E-02	1.03E-01	1.00E-01	3.47E-03	-1.00E-03	-2.16E-03
216104	4005	7.89E-02	1.04E-01	1.42E-01	1.53E-03	-6.33E-04	-8.27E-04
216105	4005	1.05E-01	1.45E-01	2.38E-01	2.33E-05	-2.07E-03	-9.11E-04
216106	4005	1.52E-01	1.31E-01	2.39E-01	2.64E-05	-1.22E-03	2.94E-04
216107	4005	8.13E-02	1.42E-01	8.71E-02	6.14E-04	-1.10E-03	-1.72E-03
216108	4005	1.37E-01	1.29E-01	1.06E-01	9.93E-04	-2.54E-03	-1.29E-03
217001	4005	4.03E-02	1.76E-01	9.51E-02	-3.72E-03	-1.06E-03	1.33E-03
217002	4005	5.71E-02	1.76E-01	1.45E-01	-2.56E-03	-1.36E-03	9.72E-04
217003	4005	4.31E-02	1.23E-01	5.73E-02	-2.34E-03	-5.63E-04	1.82E-03
217004	4005	6.47E-02	1.25E-01	8.97E-02	-1.66E-03	-8.97E-04	1.18E-03
217005	4005	6.75E-02	1.12E-01	9.08E-02	-2.25E-03	-1.05E-03	1.22E-03
217006	4005	1.08E-01	8.23E-02	1.39E-01	-1.94E-03	-1.72E-04	6.18E-04
217007	4005	5.70E-02	8.52E-02	4.93E-02	-8.28E-04	-9.60E-04	1.52E-03
217008	4005	1.16E-01	7.46E-02	6.82E-02	-1.58E-03	-2.19E-03	7.16E-04

ID	Load Case	TX (in)	TY (in)	TZ (in)	RX (rad)	RY (rad)	RZ (rad)
200601	4032	1.04E-01	-7.44E-02	-1.14E-01	-5.98E-04	-3.74E-03	1.39E-03
200602	4032	4.68E-02	-7.56E-03	-7.68E-02	-1.41E-04	-3.14E-03	-1.54E-03
200603	4032	8.43E-02	-5.57E-02	6.25E-02	-1.07E-03	-2.45E-03	5.85E-04
200604	4032	3.46E-02	-5.68E-02	1.52E-01	-1.10E-03	-2.61E-03	-9.87E-04
216101	4032	3.07E-02	-6.61E-02	1.78E-01	-1.03E-03	-2.95E-03	-1.28E-03
216102	4032	4.61E-02	-6.49E-02	1.61E-01	-1.06E-03	-2.72E-03	-1.14E-03
216103	4032	3.44E-02	-9.34E-03	-4.79E-02	-1.76E-03	-3.35E-03	-1.79E-03
216104	4032	5.68E-02	-1.10E-02	-7.05E-02	-1.08E-03	-3.32E-03	-1.80E-03
216105	4032	1.05E-01	-8.83E-02	1.78E-01	-8.90E-04	-3.19E-03	-1.09E-03
216106	4032	1.95E-01	-1.06E-01	1.58E-01	-9.90E-04	-3.19E-03	-8.02E-04
216107	4032	1.18E-01	-3.85E-02	-4.70E-02	-1.17E-03	-3.47E-03	-1.58E-03
216108	4032	2.19E-01	-5.25E-02	-7.33E-02	-7.05E-04	-3.08E-03	-3.89E-04
217001	4032	7.37E-02	-6.61E-02	3.10E-02	-1.36E-03	-2.62E-03	1.94E-03
217002	4032	9.62E-02	-6.51E-02	5.18E-02	-1.34E-03	-2.55E-03	1.08E-03
217003	4032	8.24E-02	-7.77E-02	-7.53E-02	2.82E-03	-2.97E-03	3.46E-03
217004	4032	1.18E-01	-7.49E-02	-1.10E-01	1.20E-03	-3.69E-03	2.04E-03
217005	4032	1.46E-01	-9.41E-02	3.12E-02	-1.14E-03	-3.20E-03	1.74E-03
217006	4032	2.35E-01	-1.17E-01	5.71E-02	-1.24E-03	-2.87E-03	-6.54E-05
217007	4032	1.53E-01	-3.98E-02	-6.26E-02	4.71E-04	-3.19E-03	2.54E-03
217008	4032	2.48E-01	-4.48E-02	-7.31E-02	9.18E-04	-2.17E-03	2.33E-04