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LAMPIRAN

LAMPIRAN

Lampiran 1. Tabel perhitungan kekuatan batas FPSO menggunakan metode NLFEA kondisi *sagging* dan *hogging* model 1

HOGGING				SAGGING			
Moment	Rotation	Curvature		Moment	Rotation	Curvature	
0	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00
1.82E+12	1.93E-05	4.29E-09	4.29E-03	-1.54E+12	-1.63E-05	-3.63E-09	-3.63E-03
3.64E+12	3.86E-05	8.58E-09	8.58E-03	-3.08E+12	-3.27E-05	-7.26E-09	-7.26E-03
5.45E+12	5.79E-05	1.29E-08	1.29E-02	-4.62E+12	-4.90E-05	-1.09E-08	-1.09E-02
7.27E+12	7.72E-05	1.72E-08	1.72E-02	-6.15E+12	-6.53E-05	-1.45E-08	-1.45E-02
9.09E+12	9.65E-05	2.14E-08	2.14E-02	-7.69E+12	-8.16E-05	-1.81E-08	-1.81E-02
1.09E+13	1.16E-04	2.57E-08	2.57E-02	-9.23E+12	-9.80E-05	-2.18E-08	-2.18E-02
1.27E+13	1.35E-04	3.00E-08	3.00E-02	-1.08E+13	-1.14E-04	-2.54E-08	-2.54E-02
1.45E+13	1.54E-04	3.43E-08	3.43E-02	-1.23E+13	-1.31E-04	-2.90E-08	-2.90E-02
1.64E+13	1.74E-04	3.86E-08	3.86E-02	-1.38E+13	-1.47E-04	-3.27E-08	-3.27E-02
1.82E+13	1.93E-04	4.29E-08	4.29E-02	-1.54E+13	-1.63E-04	-3.63E-08	-3.63E-02
2.00E+13	2.12E-04	4.72E-08	4.72E-02	-1.69E+13	-1.80E-04	-3.99E-08	-3.99E-02
2.18E+13	2.32E-04	5.15E-08	5.15E-02	-1.85E+13	-1.96E-04	-4.35E-08	-4.35E-02
2.36E+13	2.51E-04	5.57E-08	5.57E-02	-2.00E+13	-2.12E-04	-4.72E-08	-4.72E-02
2.55E+13	2.70E-04	6.00E-08	6.00E-02	-2.15E+13	-2.29E-04	-5.08E-08	-5.08E-02
2.78E+13	2.95E-04	6.55E-08	6.55E-02	-2.31E+13	-2.45E-04	-5.44E-08	-5.44E-02
2.98E+13	3.16E-04	7.03E-08	7.03E-02	-2.46E+13	-2.61E-04	-5.81E-08	-5.81E-02
3.16E+13	3.36E-04	7.46E-08	7.46E-02	-2.62E+13	-2.78E-04	-6.17E-08	-6.17E-02
3.34E+13	3.55E-04	7.89E-08	7.89E-02	-2.77E+13	-2.94E-04	-6.53E-08	-6.53E-02
3.53E+13	3.74E-04	8.32E-08	8.32E-02	-2.92E+13	-3.10E-04	-6.89E-08	-6.89E-02
3.71E+13	3.94E-04	8.75E-08	8.75E-02	-3.08E+13	-3.27E-04	-7.26E-08	-7.26E-02
3.89E+13	4.13E-04	9.17E-08	9.17E-02	-3.23E+13	-3.43E-04	-7.62E-08	-7.62E-02
4.07E+13	4.32E-04	9.60E-08	9.60E-02	-3.38E+13	-3.59E-04	-7.98E-08	-7.98E-02
4.25E+13	4.51E-04	1.00E-07	1.00E-01	-3.54E+13	-3.76E-04	-8.35E-08	-8.35E-02
4.43E+13	4.71E-04	1.05E-07	1.05E-01	-3.69E+13	-3.92E-04	-8.71E-08	-8.71E-02
4.62E+13	4.90E-04	1.09E-07	1.09E-01	-3.85E+13	-4.08E-04	-9.07E-08	-9.07E-02
4.80E+13	5.09E-04	1.13E-07	1.13E-01	-4.00E+13	-4.25E-04	-9.43E-08	-9.43E-02
4.98E+13	5.29E-04	1.17E-07	1.17E-01	-4.15E+13	-4.41E-04	-9.80E-08	-9.80E-02
5.16E+13	5.48E-04	1.22E-07	1.22E-01	-4.31E+13	-4.57E-04	-1.02E-07	-1.02E-01
5.34E+13	5.68E-04	1.26E-07	1.26E-01	-4.46E+13	-4.74E-04	-1.05E-07	-1.05E-01
5.51E+13	5.87E-04	1.31E-07	1.31E-01	-4.61E+13	-4.90E-04	-1.09E-07	-1.09E-01

5.65E+13	6.11E-04	1.36E-07	1.36E-01	-4.77E+13	-5.06E-04	-1.12E-07	-1.12E-01
5.74E+13	6.38E-04	1.42E-07	1.42E-01	-4.92E+13	-5.23E-04	-1.16E-07	-1.16E-01
5.77E+13	6.62E-04	1.47E-07	1.47E-01	-5.07E+13	-5.39E-04	-1.20E-07	-1.20E-01
5.82E+13	6.79E-04	1.51E-07	1.51E-01	-5.23E+13	-5.55E-04	-1.23E-07	-1.23E-01
5.83E+13	6.83E-04	1.52E-07	1.52E-01	-5.38E+13	-5.72E-04	-1.27E-07	-1.27E-01
5.82E+13	6.84E-04	1.52E-07	1.52E-01	-5.52E+13	-5.89E-04	-1.31E-07	-1.31E-01
5.81E+13	6.85E-04	1.52E-07	1.52E-01	-5.64E+13	-6.08E-04	-1.35E-07	-1.35E-01
5.80E+13	6.85E-04	1.52E-07	1.52E-01	-5.70E+13	-6.27E-04	-1.39E-07	-1.39E-01
5.79E+13	6.86E-04	1.52E-07	1.52E-01	-5.73E+13	-6.41E-04	-1.42E-07	-1.42E-01
5.79E+13	6.87E-04	1.53E-07	1.53E-01	-5.74E+13	-6.47E-04	-1.44E-07	-1.44E-01
5.79E+13	6.87E-04	1.53E-07	1.53E-01	-5.75E+13	-6.54E-04	-1.45E-07	-1.45E-01
5.79E+13	6.87E-04	1.53E-07	1.53E-01	-5.74E+13	-6.54E-04	-1.45E-07	-1.45E-01
5.79E+13	6.87E-04	1.53E-07	1.53E-01	-5.71E+13	-6.53E-04	-1.45E-07	-1.45E-01
5.79E+13	6.87E-04	1.53E-07	1.53E-01	-5.69E+13	-6.51E-04	-1.45E-07	-1.45E-01
5.80E+13	6.87E-04	1.53E-07	1.53E-01	-5.67E+13	-6.50E-04	-1.45E-07	-1.45E-01
5.80E+13	6.87E-04	1.53E-07	1.53E-01	-5.72E+13	-6.55E-04	-1.45E-07	-1.45E-01
5.80E+13	6.87E-04	1.53E-07	1.53E-01	-5.75E+13	-6.61E-04	-1.47E-07	-1.47E-01
5.80E+13	6.87E-04	1.53E-07	1.53E-01	-5.77E+13	-6.68E-04	-1.48E-07	-1.48E-01
				-5.80E+13	-6.75E-04	-1.50E-07	-1.50E-01
				-5.82E+13	-6.83E-04	-1.52E-07	-1.52E-01
				-5.84E+13	-6.96E-04	-1.55E-07	-1.55E-01
				-5.85E+13	-7.00E-04	-1.56E-07	-1.56E-01
				-5.85E+13	-7.00E-04	-1.56E-07	-1.56E-01
				-5.85E+13	-7.02E-04	-1.56E-07	-1.56E-01
				-5.85E+13	-7.02E-04	-1.56E-07	-1.56E-01
				-5.84E+13	-7.02E-04	-1.56E-07	-1.56E-01
				-5.84E+13	-7.02E-04	-1.56E-07	-1.56E-01
				-5.84E+13	-7.02E-04	-1.56E-07	-1.56E-01
				-5.84E+13	-7.01E-04	-1.56E-07	-1.56E-01
				-5.84E+13	-7.01E-04	-1.56E-07	-1.56E-01
				-5.83E+13	-7.00E-04	-1.56E-07	-1.56E-01
				-5.82E+13	-6.99E-04	-1.55E-07	-1.55E-01
				-5.81E+13	-6.98E-04	-1.55E-07	-1.55E-01

Lampiran 2. Tabel perhitungan kekuatan batas FPSO menggunakan metode NLFEA kondisi *sagging* dan *hogging* model 2

HOGGING				SAGGING			
Moment	Rotation	Curvature		Moment	Rotation	Curvature	
0	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00
7.41E+11	8.00E-06	1.78E-09	1.78E-03	-1.18E+12	-1.27E-05	-2.83E-09	-2.83E-03
1.48E+12	1.60E-05	3.56E-09	3.56E-03	-2.35E+12	-2.54E-05	-5.65E-09	-5.65E-03
2.22E+12	2.40E-05	5.34E-09	5.34E-03	-3.53E+12	-3.81E-05	-8.48E-09	-8.48E-03
2.96E+12	3.20E-05	7.12E-09	7.12E-03	-4.71E+12	-5.09E-05	-1.13E-08	-1.13E-02
3.70E+12	4.00E-05	8.89E-09	8.89E-03	-5.88E+12	-6.36E-05	-1.41E-08	-1.41E-02
4.44E+12	4.80E-05	1.07E-08	1.07E-02	-7.06E+12	-7.63E-05	-1.70E-08	-1.70E-02
5.19E+12	5.60E-05	1.25E-08	1.25E-02	-8.24E+12	-8.90E-05	-1.98E-08	-1.98E-02
5.93E+12	6.40E-05	1.42E-08	1.42E-02	-9.41E+12	-1.02E-04	-2.26E-08	-2.26E-02
6.67E+12	7.20E-05	1.60E-08	1.60E-02	-1.06E+13	-1.14E-04	-2.54E-08	-2.54E-02
7.41E+12	8.00E-05	1.78E-08	1.78E-02	-1.18E+13	-1.27E-04	-2.83E-08	-2.83E-02
8.15E+12	8.80E-05	1.96E-08	1.96E-02	-1.29E+13	-1.40E-04	-3.11E-08	-3.11E-02
8.89E+12	9.61E-05	2.13E-08	2.13E-02	-1.41E+13	-1.53E-04	-3.39E-08	-3.39E-02
9.63E+12	1.04E-04	2.31E-08	2.31E-02	-1.53E+13	-1.65E-04	-3.67E-08	-3.67E-02
1.04E+13	1.12E-04	2.49E-08	2.49E-02	-1.65E+13	-1.78E-04	-3.96E-08	-3.96E-02
1.11E+13	1.20E-04	2.67E-08	2.67E-02	-1.76E+13	-1.91E-04	-4.24E-08	-4.24E-02
1.19E+13	1.28E-04	2.85E-08	2.85E-02	-1.88E+13	-2.03E-04	-4.52E-08	-4.52E-02
1.26E+13	1.36E-04	3.02E-08	3.02E-02	-2.00E+13	-2.16E-04	-4.80E-08	-4.80E-02
1.33E+13	1.44E-04	3.20E-08	3.20E-02	-2.12E+13	-2.29E-04	-5.09E-08	-5.09E-02
1.41E+13	1.52E-04	3.38E-08	3.38E-02	-2.24E+13	-2.42E-04	-5.37E-08	-5.37E-02
1.48E+13	1.60E-04	3.56E-08	3.56E-02	-2.35E+13	-2.54E-04	-5.65E-08	-5.65E-02
1.56E+13	1.68E-04	3.74E-08	3.74E-02	-2.47E+13	-2.67E-04	-5.93E-08	-5.93E-02
1.63E+13	1.76E-04	3.91E-08	3.91E-02	-2.59E+13	-2.80E-04	-6.22E-08	-6.22E-02
1.70E+13	1.84E-04	4.09E-08	4.09E-02	-2.71E+13	-2.92E-04	-6.50E-08	-6.50E-02
1.78E+13	1.92E-04	4.27E-08	4.27E-02	-2.82E+13	-3.05E-04	-6.78E-08	-6.78E-02
1.85E+13	2.00E-04	4.45E-08	4.45E-02	-2.94E+13	-3.18E-04	-7.06E-08	-7.06E-02
1.93E+13	2.08E-04	4.62E-08	4.62E-02	-3.06E+13	-3.31E-04	-7.35E-08	-7.35E-02
2.00E+13	2.16E-04	4.80E-08	4.80E-02	-3.18E+13	-3.43E-04	-7.63E-08	-7.63E-02
2.07E+13	2.24E-04	4.98E-08	4.98E-02	-3.29E+13	-3.56E-04	-7.91E-08	-7.91E-02
2.15E+13	2.32E-04	5.16E-08	5.16E-02	-3.41E+13	-3.69E-04	-8.19E-08	-8.19E-02
2.22E+13	2.40E-04	5.34E-08	5.34E-02	-3.53E+13	-3.81E-04	-8.48E-08	-8.48E-02
2.30E+13	2.48E-04	5.51E-08	5.51E-02	-3.65E+13	-3.94E-04	-8.76E-08	-8.76E-02
2.37E+13	2.56E-04	5.69E-08	5.69E-02	-3.76E+13	-4.07E-04	-9.04E-08	-9.04E-02

2.46E+13	2.66E-04	5.92E-08	5.92E-02	-3.88E+13	-4.20E-04	-9.32E-08	-9.32E-02
2.55E+13	2.75E-04	6.12E-08	6.12E-02	-4.00E+13	-4.32E-04	-9.61E-08	-9.61E-02
2.62E+13	2.83E-04	6.30E-08	6.30E-02	-4.12E+13	-4.45E-04	-9.89E-08	-9.89E-02
2.7E+13	2.91E-04	6.47E-08	6.47E-02	-4.23E+13	-4.58E-04	-1.02E-07	-1.02E-01
2.77E+13	2.99E-04	6.65E-08	6.65E-02	-4.35E+13	-4.70E-04	-1.05E-07	-1.05E-01
2.84E+13	3.07E-04	6.83E-08	6.83E-02	-4.47E+13	-4.83E-04	-1.07E-07	-1.07E-01
2.92E+13	3.15E-04	7.01E-08	7.01E-02	-4.59E+13	-4.96E-04	-1.10E-07	-1.10E-01
2.99E+13	3.23E-04	7.19E-08	7.19E-02	-4.70E+13	-5.09E-04	-1.13E-07	-1.13E-01
3.07E+13	3.31E-04	7.36E-08	7.36E-02	-4.82E+13	-5.21E-04	-1.16E-07	-1.16E-01
3.14E+13	3.39E-04	7.54E-08	7.54E-02	-4.94E+13	-5.34E-04	-1.19E-07	-1.19E-01
3.21E+13	3.47E-04	7.72E-08	7.72E-02	-5.06E+13	-5.47E-04	-1.22E-07	-1.22E-01
3.29E+13	3.55E-04	7.90E-08	7.90E-02	-5.17E+13	-5.60E-04	-1.24E-07	-1.24E-01
3.36E+13	3.63E-04	8.07E-08	8.07E-02	-5.29E+13	-5.72E-04	-1.27E-07	-1.27E-01
3.44E+13	3.71E-04	8.25E-08	8.25E-02	-5.40E+13	-5.86E-04	-1.30E-07	-1.30E-01
3.51E+13	3.79E-04	8.43E-08	8.43E-02	-5.50E+13	-6.00E-04	-1.33E-07	-1.33E-01
3.58E+13	3.87E-04	8.61E-08	8.61E-02	-5.57E+13	-6.16E-04	-1.37E-07	-1.37E-01
3.66E+13	3.95E-04	8.79E-08	8.79E-02	-5.60E+13	-6.27E-04	-1.39E-07	-1.39E-01
3.73E+13	4.03E-04	8.96E-08	8.96E-02	-5.67E+13	-6.56E-04	-1.46E-07	-1.46E-01
3.81E+13	4.11E-04	9.14E-08	9.14E-02	-5.70E+13	-6.70E-04	-1.49E-07	-1.49E-01
3.88E+13	4.19E-04	9.32E-08	9.32E-02	-5.70E+13	-6.72E-04	-1.49E-07	-1.49E-01
3.96E+13	4.27E-04	9.50E-08	9.50E-02	-5.70E+13	-6.72E-04	-1.49E-07	-1.49E-01
4.03E+13	4.35E-04	9.68E-08	9.68E-02	-5.69E+13	-6.72E-04	-1.49E-07	-1.49E-01
4.1E+13	4.43E-04	9.85E-08	9.85E-02	-5.69E+13	-6.72E-04	-1.49E-07	-1.49E-01
4.18E+13	4.51E-04	1.00E-07	1.00E-01	-5.68E+13	-6.72E-04	-1.49E-07	-1.49E-01
4.25E+13	4.59E-04	1.02E-07	1.02E-01	-5.68E+13	-6.72E-04	-1.49E-07	-1.49E-01
4.33E+13	4.67E-04	1.04E-07	1.04E-01	-5.68E+13	-6.74E-04	-1.50E-07	-1.50E-01
4.4E+13	4.75E-04	1.06E-07	1.06E-01	-5.70E+13	-6.79E-04	-1.51E-07	-1.51E-01
4.46E+13	4.83E-04	1.07E-07	1.07E-01	-5.70E+13	-6.80E-04	-1.51E-07	-1.51E-01
4.53E+13	4.90E-04	1.09E-07	1.09E-01	-5.70E+13	-6.80E-04	-1.51E-07	-1.51E-01
4.6E+13	4.97E-04	1.10E-07	1.10E-01	-5.70E+13	-6.80E-04	-1.51E-07	-1.51E-01
4.66E+13	5.04E-04	1.12E-07	1.12E-01	-5.70E+13	-6.80E-04	-1.51E-07	-1.51E-01
4.73E+13	5.11E-04	1.14E-07	1.14E-01	-5.70E+13	-6.80E-04	-1.51E-07	-1.51E-01
4.8E+13	5.19E-04	1.15E-07	1.15E-01	-5.70E+13	-6.82E-04	-1.51E-07	-1.51E-01
4.86E+13	5.25E-04	1.17E-07	1.17E-01	-5.71E+13	-6.83E-04	-1.52E-07	-1.52E-01
4.94E+13	5.34E-04	1.19E-07	1.19E-01	-5.72E+13	-6.88E-04	-1.53E-07	-1.53E-01
5.01E+13	5.42E-04	1.20E-07	1.20E-01	-5.72E+13	-6.90E-04	-1.53E-07	-1.53E-01
5.1E+13	5.52E-04	1.23E-07	1.23E-01	-5.75E+13	-7.01E-04	-1.56E-07	-1.56E-01

5.16E+13	5.58E-04	1.24E-07	1.24E-01	-5.75E+13	-7.03E-04	-1.56E-07	-1.56E-01
5.24E+13	5.68E-04	1.26E-07	1.26E-01	-5.77E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.3E+13	5.74E-04	1.27E-07	1.27E-01	-5.77E+13	-7.10E-04	-1.58E-07	-1.58E-01
5.36E+13	5.81E-04	1.29E-07	1.29E-01	-5.75E+13	-7.10E-04	-1.58E-07	-1.58E-01
5.42E+13	5.88E-04	1.31E-07	1.31E-01	-5.74E+13	-7.10E-04	-1.58E-07	-1.58E-01
5.5E+13	6.00E-04	1.33E-07	1.33E-01	-5.74E+13	-7.09E-04	-1.58E-07	-1.58E-01
5.54E+13	6.08E-04	1.35E-07	1.35E-01	-5.73E+13	-7.09E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.73E+13	-7.09E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.73E+13	-7.09E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.58E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.58E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.58E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.59E+13	6.23E-04	1.38E-07	1.38E-01	-5.74E+13	-7.11E-04	-1.58E-07	-1.58E-01
5.59E+13	6.24E-04	1.39E-07	1.39E-01	-5.74E+13	-7.12E-04	-1.58E-07	-1.58E-01
5.6E+13	6.26E-04	1.39E-07	1.39E-01	-5.7E+13	-7.12E-04	-1.58E-07	-1.58E-01
5.6E+13	6.29E-04	1.40E-07	1.40E-01	-5.7E+13	-7.13E-04	-1.58E-07	-1.58E-01
5.62E+13	6.33E-04	1.41E-07	1.41E-01				
5.63E+13	6.37E-04	1.42E-07	1.42E-01				
5.63E+13	6.40E-04	1.42E-07	1.42E-01				
5.66E+13	6.52E-04	1.45E-07	1.45E-01				
5.67E+13	6.58E-04	1.46E-07	1.46E-01				
5.68E+13	6.62E-04	1.47E-07	1.47E-01				
5.67E+13	6.62E-04	1.47E-07	1.47E-01				
5.67E+13	6.62E-04	1.47E-07	1.47E-01				
5.67E+13	6.61E-04	1.47E-07	1.47E-01				
5.66E+13	6.61E-04	1.47E-07	1.47E-01				
5.65E+13	6.60E-04	1.47E-07	1.47E-01				
5.64E+13	6.59E-04	1.46E-07	1.46E-01				
5.66E+13	6.61E-04	1.47E-07	1.47E-01				
5.66E+13	6.61E-04	1.47E-07	1.47E-01				
5.66E+13	6.61E-04	1.47E-07	1.47E-01				

Lampiran 3. Tabel perhitungan kekuatan batas FPSO menggunakan metode NLFEA kondisi *sagging* dan *hogging* model 3

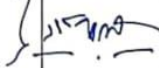
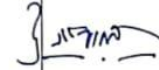
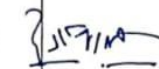
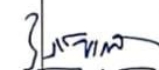


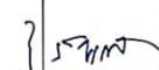
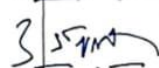
HOGGING				SAGGING			
Moment	Rotation	Curvature		Moment	Rotation	Curvature	
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+12	2.19E-05	4.86E-09	4.86E-03	-1.75E+12	-1.92E-05	-4.26E-09	-4.26E-03
4.00E+12	4.37E-05	9.71E-09	9.71E-03	-3.51E+12	-3.83E-05	-8.52E-09	-8.52E-03
6.00E+12	6.56E-05	1.46E-08	1.46E-02	-5.26E+12	-5.75E-05	-1.28E-08	-1.28E-02
8.00E+12	8.74E-05	1.94E-08	1.94E-02	-7.02E+12	-7.67E-05	-1.70E-08	-1.70E-02
1.00E+13	1.09E-04	2.43E-08	2.43E-02	-8.77E+12	-9.59E-05	-2.13E-08	-2.13E-02
1.20E+13	1.31E-04	2.91E-08	2.91E-02	-1.05E+13	-1.15E-04	-2.56E-08	-2.56E-02
1.40E+13	1.53E-04	3.40E-08	3.40E-02	-1.23E+13	-1.34E-04	-2.98E-08	-2.98E-02
1.60E+13	1.75E-04	3.89E-08	3.89E-02	-1.40E+13	-1.53E-04	-3.41E-08	-3.41E-02
1.80E+13	1.97E-04	4.37E-08	4.37E-02	-1.58E+13	-1.73E-04	-3.83E-08	-3.83E-02
2.00E+13	2.19E-04	4.86E-08	4.86E-02	-1.75E+13	-1.92E-04	-4.26E-08	-4.26E-02
2.20E+13	2.40E-04	5.34E-08	5.34E-02	-1.93E+13	-2.11E-04	-4.69E-08	-4.69E-02
2.40E+13	2.62E-04	5.83E-08	5.83E-02	-2.11E+13	-2.30E-04	-5.11E-08	-5.11E-02
2.60E+13	2.84E-04	6.31E-08	6.31E-02	-2.28E+13	-2.49E-04	-5.54E-08	-5.54E-02
2.85E+13	3.12E-04	6.93E-08	6.93E-02	-2.46E+13	-2.68E-04	-5.96E-08	-5.96E-02
3.08E+13	3.36E-04	7.48E-08	7.48E-02	-2.63E+13	-2.88E-04	-6.39E-08	-6.39E-02
3.28E+13	3.58E-04	7.96E-08	7.96E-02	-2.81E+13	-3.07E-04	-6.82E-08	-6.82E-02
3.48E+13	3.80E-04	8.45E-08	8.45E-02	-2.98E+13	-3.26E-04	-7.24E-08	-7.24E-02
3.68E+13	4.02E-04	8.93E-08	8.93E-02	-3.16E+13	-3.45E-04	-7.67E-08	-7.67E-02
3.88E+13	4.24E-04	9.42E-08	9.42E-02	-3.33E+13	-3.64E-04	-8.10E-08	-8.10E-02
4.08E+13	4.46E-04	9.91E-08	9.91E-02	-3.51E+13	-3.83E-04	-8.52E-08	-8.52E-02
4.28E+13	4.68E-04	1.04E-07	1.04E-01	-3.68E+13	-4.03E-04	-8.95E-08	-8.95E-02
4.48E+13	4.90E-04	1.09E-07	1.09E-01	-3.86E+13	-4.22E-04	-9.37E-08	-9.37E-02
4.68E+13	5.11E-04	1.14E-07	1.14E-01	-4.03E+13	-4.41E-04	-9.80E-08	-9.80E-02
4.88E+13	5.33E-04	1.19E-07	1.19E-01	-4.21E+13	-4.60E-04	-1.02E-07	-1.02E-01
5.07E+13	5.55E-04	1.23E-07	1.23E-01	-4.39E+13	-4.79E-04	-1.07E-07	-1.07E-01
5.27E+13	5.77E-04	1.28E-07	1.28E-01	-4.56E+13	-4.99E-04	-1.11E-07	-1.11E-01
5.44E+13	6.01E-04	1.34E-07	1.34E-01	-4.73E+13	-5.18E-04	-1.15E-07	-1.15E-01
5.55E+13	6.28E-04	1.40E-07	1.40E-01	-4.91E+13	-5.37E-04	-1.19E-07	-1.19E-01
5.59E+13	6.47E-04	1.44E-07	1.44E-01	-5.08E+13	-5.56E-04	-1.24E-07	-1.24E-01
5.59E+13	6.54E-04	1.45E-07	1.45E-01	-5.26E+13	-5.76E-04	-1.28E-07	-1.28E-01
5.58E+13	6.53E-04	1.45E-07	1.45E-01	-5.41E+13	-5.96E-04	-1.32E-07	-1.32E-01
5.57E+13	6.53E-04	1.45E-07	1.45E-01	-5.52E+13	-6.21E-04	-1.38E-07	-1.38E-01

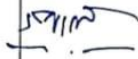
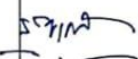
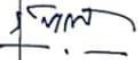
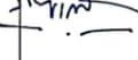
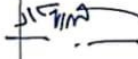
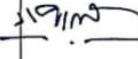
5.59E+13	6.62E-04	1.47E-07	1.47E-01	-5.59E+13	-6.47E-04	-1.44E-07	-1.44E-01
5.60E+13	6.69E-04	1.49E-07	1.49E-01	-5.63E+13	-6.69E-04	-1.49E-07	-1.49E-01
5.61E+13	6.74E-04	1.50E-07	1.50E-01	-5.67E+13	-6.92E-04	-1.54E-07	-1.54E-01
5.62E+13	6.77E-04	1.50E-07	1.50E-01	-5.68E+13	-7.00E-04	-1.56E-07	-1.56E-01
5.60E+13	6.75E-04	1.50E-07	1.50E-01	-5.68E+13	-7.00E-04	-1.56E-07	-1.56E-01
5.59E+13	6.74E-04	1.50E-07	1.50E-01				
5.59E+13	6.74E-04	1.50E-07	1.50E-01				

Lampiran 4. Kartu kontrol asistensi

LEMBAR ASISTENSI SKRIPSI

Nama : Selviani
 NIM : D081201002
 Judul Skripsi : Analisis Kekuatan Membujur Fpso Pasca Grounding
 Peminatan : Ocean Structure Analysis Research Laboratory (OSAREL)
 Pembimbing : Prof. Muhammad Zubair Muis Alie, ST., MT., Ph.D

NO.	Hari/Tanggal/ Bulan/Tahun	Deskripsi	Paraf Mahasiswa	Paraf Pembimbing
1.	14/4/2023	Perbaikan laporan Bab I sampai Bab III	Selviani	
2.	18/4/2023	Pembuatan Model Midship di autocad	Selviani	
3.	22/4/2023	Pembuatan Model Midship setelah tubrukan di autocad	Selviani	
4.	28/4/2023	Pembuatan Model di Ansys	Selviani	
5.	15/5/2023	Pemberian tebal pelat Model di Ansys	Selviani	
6.	13/5/2023	Asistensi Model Kapal akibat kandas di Ansys	Selviani	
7.	17/5/2023	Running Model 2 di mesh 350.	Selviani	
8.	28/5/2023	Perbaikan Model di Ansys, Model 1, 2 dan 3.	Selviani	

9.	8/6/2023	Running Model 1 dan 2 Mesh 350 Hogging dan Saggung.	Sri	
10.	12/6/2023	Running Model 3 Mesh 350 Hogging dan Saggung	Sri	
11.	19/6/2023	Perbaikan hasil running Model 1, 2, dan 3 Mesh 350 hogging dan saggung	Sri	
12.	23/6/2023	Running Model 3 dengan mesh 300, 330 dan 340.	Sri	
13.	28/6/2023	Rekap hasil running Model 1, 2 dan 3	Sri	
14.	2/7/2023	Running Model 1, 2 dan 3 untuk deformasi dalam kondisi hogging dan Saggung.	Sri	
15.	4/7/2023	Penyusunan hasil running di Bab III dan Bab IV.	Sri	