2.5 - TSP Performance against KPIs for 2022/23

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List of KPIs for ICG-IOTWMS (SDD V5.0)

No.	Key Performance Indicator	Target Value
1	Elapsed time from earthquake to issuance of first Earthquake Bulletin	10 minutes
2	Probability of detection of earthquakes with Mw>=6.8 (USGS final value) in the IOTWMS ESZ	100%
3	Accuracy of earthquake magnitude	0.3
4	Accuracy of earthquake hypocenter depth	30 km
5	Accuracy of earthquake hypocenter location	30 km
6	Elapsed time from earthquake to issuance of first Threat Assessment Bulletin	20 minutes
7	Probability of detection of tsunami above threat threshold	100%
8	Accuracy of the tsunami forecast amplitude/height	Factor of 2
9	Number of false or incorrect bulletins issued	0
10	Accuracy of time arrival of tsunami (0.02m amplitude)	Within 5% of travel time
11	Accuracy of time of arrival of 1st significant wave (0.1m)	Within 5% of travel time
12	Accuracy of threat threshold exceedance	Within 5% #
13	Percent of IO countries issued a timely product as defined above	100%
14	Elapsed time from any product issuance to potential receipt by NTWC Contact	5 minutes ##
15	Percent of regular Comms Tests participated in	100%

TSP KPIs 2023 – M6.8+

TSP	Service Level 1 EQ Bulletins					Service Level 2 Threat / No Threat Bulletins		
	KPI 1 ET First EQ Bull Target: 10 mins (% met)	KPI 2 POD EQs GE M6.8 Target: 100%	KPI 3 EQ Mag Target: 0.3 (% met)	KPI 4 EQ Depth Target: 30 km (% met)	KPI 5 EQ Location Target: 30 km (% met)	KPI 6 ET First Threat Bull Target: 20 mins (% met)	KPI 7 POD Tsunami Waves Target: 100%	KPI 8 Tsunami Height Accuracy Target: Factor of 2
Australia	10.6 (54%)	(100%)	0.12 (96%)	13.6 km (88%)	37.8 km (75%)	16.5 (50%)	n/a	n/a
India	12.0 (47%)	(83%)	0.25 (74%)	23.9 km (75%)	18.9 (80%)	22.0 (100%)	n/a	n/a
Indonesia	11.4 (86%)	(92%)	0.22 (76%)	27.9 km (78%)	27.4 km (78%)	16.0 (100%)	n/a	n/a

NOTES

Meets Target	Near Target	Misses Target

TSP KPIs 2024 – M6.8+ (Jan-July)

TSP	Service Level 1 EQ Bulletins					Service Level 2 Threat / No Threat Bulletins		
	KPI 1 ET First EQ Bull Target: 10 mins (% met)	KPI 2 POD EQs GE M6.8 Target: 100%	KPI 3 EQ Mag Target: 0.3 (% met)	KPI 4 EQ Depth Target: 30 km (% met)	KPI 5 EQ Location Target: 30 km (% met)	KPI 6 ET First Threat Bull Target: 20 mins (% met)	KPI 7 POD Tsunami Waves Target: 100%	KPI 8 Tsunami Height Accuracy Target: Factor of 2
Australia	10.1 (86%)	(100%)	0.1 (100%)	14.2 km (86%)	19.0 km (86%)	n/a	n/a	n/a
India	10.5 (50%)	(86%)	0.1 (100%)	55 km (83%)	17.9 km (83%)	n/a	n/a	n/a
Indonesia	9.5 (83%)	(86%)	0.26 (67%)	25.9 km (67%)	21.9 km (83%)	n/a	n/a	n/a

NOTES

Meets Target	Near Target	Misses Target

Thank you …