

EXHIBIT 2 - Stage 3 Baseline Technical Documentation

Attachment 5 - FRACAS reports associated with the UGL Rail and foreign type testing reports

Document Number	Title	REPORT	FRACAS ID's
GED/45500/TS.010	TYPE WATERTIGHTNESS TESTING OF FRESH WATER SUPPLY AND EFFLUENT HOLDOVER TANKS ON THE OSC	GED/45500/REP.3023, Rev C	None
GED/45500/TS.053	TYPE AND ROUTINE TESTS GAUGE CLEARANCE, COUPLER AND FLOOR HEIGHT FOR THE OSC	Various	1312 1313 1314 1315 1394 1395 1396 1397 1719 1720 1738 1739 1750 1751 1783 1784 1879 1951 1995
GED/45500/TS.094	TEST SPECIFICATION - TYPE (QUALIFICATION) FOR SHOCK AND VIBRATION TESTING OF BATTERIES ON THE OSC	GED/45500/REP.2783, Rev B	None
GED/45500/TS.100	TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (A)	GED/45500/REP.2546, Rev 0	None
GED/45500/TS.101	TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (B)	GED/45500/REP.2547, Rev 0	None
GED/45500/TS.104	TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (E)	GED/45500/REP.2550, Rev 0	None
GED/45500/TS.105	TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (F)	GED/45500/REP.2551, Rev 0	None
GED/45500/TS.106	TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (G)	GED/45500/REP.2552, Rev 0	None
GED/45500/TS.108	TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (I) FOR THE OSC AND HRC	GED/45500/REP.2554, Rev A GED/45500/REP.2555, Rev A	None
GED/45500/TS.117	INSITU TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (C)	GED/45500/REP.2710 Rev 0 GED/45500/REP.2714 Rev 0 GED/45500/REP.3098, Rev 0	None
GED/45500/TS.118	INSITU TYPE TEST FOR PASSENGER SEATS FOR COMPLIANCE WITH RAILCORP SPECIFICATION FE038-92 SECTION 4.1 (D)	GED/45500/REP.2711 Rev 0 GED/45500/REP.2715 Rev 0 GED/45500/REP.3115, Rev A	None
GED/45500/TS.119	TYPE (QUALIFICATIO) TEST FOR AUTODROP AND OVER-REACH OF THE PANTOGRAPH ON OSC	GED/45500/REP.2766, Rev. 0 done to Rev. B of the spec	None
GED/45500/TS.120	TEST SPECIFICATION FOR THE AIRFLOW TYPE (QUALIFICATION) TESTS FOR THE CLIMATE CONTROL SYSTEM ON THE OSC	GED/45500/REP.2993, Rev. B	None
GED/45500/TS.121	PASSENGER AND CREW ENVIRONMENT TYPE (QUALIFICATION) TESTS FOR THE CLIMATE CONTROL SYSTEM ON THE OSC	GED/45500/REP.4299, Rev. 0	None
GED/45500/TS.122	FUNCTIONAL TYPE TESTS FOR THE CLIMATE CONTROL SYSTEM ON THE OSC	GED/45500/REP.2993, Rev. B	None
GED/45500/TS.133	TYPE TESTS FOR NOISE ON THE OSC	Internal: GED/47500/REP.3717, Rev. 0, GED/47500/REP.3718, Rev. 0	None
GED/45500/TS.135	TYPE TEST FOR PASSENGER & DRIVER'S SENSED VIBRATION ON OSC	GED/45500/REP.2936, Rev. 0, GED/45500/REP.3796, Rev. 0	None
GED/45500/TS.136	TEST SPECIFICATION BR566 IMPACT RESISTANCE TYPE TEST FOR WINDSCREENS ON THE OSC	GED/45500/REP.2726, Rev. A	None
GED/45500/TS.143	TEST SPECIFICATION TYPE & VERIFICATION FOR DYNAMIC BRAKE TEST ON THE OSC	GED/45500/REP.2965, Rev. D	None
GED/45500/TS.149	TYPE TEST SPECIFICATION FIRE-RESISTANCE TEST INTERCAR ACCESS DOOR FOR THE OSC	GED/45500/REP.2892, Rev. A	None
GED/45500/TS.151	TYPE TEST FOR TWO CAR LIGHTING LEVELS FOR THE OSC	GED/45500/REP.3088, Rev. 0	Developmental test. However results accepted at SVR. SAN's 149 - 153 issued. 149,150,151,153- Defect with cost, 152- Defect w/o cost
GED/45500/TS.154	WATER TYPE TESTING FOR ELECTRICAL BOXES ON THE OSC	GED/45500/REP.3827, Rev. 0	2273
GED/45500/TS.158	TYPE TEST SPECIFICATION OPERATIONAL REQUIREMENTS FOR COUPLER ON THE OSC	GED/45500/REP.3096, Rev. C	424-432
GED/45500/TS.161	TYPE (QUALIFICATION) TEST FOR VIGILANCE CONTROL ON OSC	GED/45500/REP.2830, Rev. B	None

GED/45500/TS.164	TYPE TEST FOR 50HZ IMPEDANCE OF HALF SET ON OSC	GED/45500/REP.2818, Rev. 0	None
GED/45500/TS.165	TYPE (QUALIFICATION) TEST FOR 50HZ DETECTORS ON THE OSC	GED/45500/REP.2986, Rev. C	None
GED/45500/TS.167	TYPE TEST SPECIFICATION TEST FOR TOS-CCS INTERFACE	GED/45500/REP.3031, Rev. A	291
GED/45500/TS.169	TYPE TEST SPECIFICATION TESTS FOR TOS BRAKES INTERFACE ON OSC	GED/45500/REP.3030, Rev. B	None
GED/45500/TS.172	TYPE (QUALIFICATION) TEST SPECIFICATION FOR PROPULSION SYSTEM ON OSC	GED/45500/REP.2986, Rev. C	None
GED/45500/TS.174	TYPE TEST SPECIFICATION TEST FOR TOS DOORS INTERFACE	GED/45500/REP.3052, Rev. A	None
GED/45500/TS.175	TYPE TEST SPECIFICATION TEST FOR TOS EAPS INTERFACE ON OSC	GED/45500/REP.3032, Rev. A	None
GED/45500/TS.176	TYPE TEST SPECIFICATION TEST FOR TOS COMMUNICATIONS	GED/45500/REP.3036, Rev. A	586
GED/45500/TS.177	TYPE TEST SPECIFICATION TEST FOR TOS SURVEILLANCE ON OSC	GED/45500/REP.3037, Rev. A	625
GED/45500/TS.178	TYPE TEST SPECIFICATION RAIL TO RAIL ELECTRICAL RESISTANCE ON THE OSC	GED/45500/REP.3084, Rev. 0	None
GED/45500/TS.181	TYPE (QUALIFICATION) FOR OPERATIONAL REQUIREMENTS FOR PANTOGRAPHS ON THE OSC	GED/45500/REP.4048, Rev. 0	None
GED/45500/TS.183	TEST SPECIFICATION TYPE (QUALIFICATION) TEST FOR LIGHTING & CONTROL BATTERY CAPACITY ON THE OSC	GED/45500/REP.3956, Rev. 0	None
GED/45500/TS.189	TYPE (QUALIFICATION) TEST OF STATIC DC FLUX LEVELS ON THE OSC	GED/45500/REP.3003, Rev. 0	None
GED/45500/TS.191	TYPE (QUALIFICATION) TEST SPECIFICATION TESTS FOR TOS TRACTION INTERFACE	GED/45500/REP.3034, Rev. A	None
GED/45500/TS.196	TYPE (QUALIFICATION) TEST OF OPERATOR ENABLE PEDAL ON THE OSC	GED/45500/REP.3061, Rev. A	None
GED/45500/TS.204	TYPE TEST FOR GROUND BORNE (PASSBY) VIBRATION ON THE OSC	GED/45500/REP.3027, Rev. A	None
GED/45500/TS.205	TYPE (QUALIFICATION) TEST FOR 8 CAR DYNAMIC AND STATIC TESTING ON THE OSC	GED/47500/REP.3831 REV 0	None
GED/45500/TS.206	TYPE (QUALIFICATION) TEST FOR CREW TRANSVERSE DOOR ON THE OSC	GED/45500/REP.2893, Rev. 0	None
GED/45500/TS.217	TYPE (QUALIFICATION) FOR OSC CUSTOMER WITNESS TYPE OF OSC COMMUNICATIONS SYSTEM ON THE OSC	GED/45500/REP.2966, Rev. A, GED/45500/REP.4479, Rev. 00	None
GED/45500/TS.218	TYPE (QUALIFICATION) TEST FOR OSC CUSTOMER WITNESS TYPE OF OSC TRAIN OPERATING SYSTEM ON THE OSC	GED/45500/REP.2989, Rev. A, GED/45500/REP.3322, Rev. 0	1293, 1294, 1295, 1298
GED/45500/TS.220	TYPE TESTING OF SMOKE DETECTOR ALARM LEVELS ON OSC	GED/45500/REP.3083, Rev. 0	None
GED/45500/TS.222	TYPE (QUALIFICATION) TEST FOR FRESH WATER SYSTEM ON THE OSC	GED/45500/REP.4442 REV 00	4343 4350
GED/45500/TS.225	THE INTERNAL TEMPERATURE PULL-UP TYPE (QUALIFICATION) TESTS FOR THE CLIMATE CONTROL SYSTEM ON THE OSC	GED/45500/REP.3102 REV A	None
GED/45500/TS.227	ACCESS INTEGRATION TYPE TEST ON PASSENGER, CREW BODYSIDE & INTERCAR ACCESS DOOR FOR THE OSC	GED/45500/REP.3019 REV A	435 436 437 467 468 469 470 471 472 473
GED/45500/TS.231	TYPE TESTS FOR NOISE (8 CAR SET CONFIGURATION) ON THE OSC	GED/45500/REP.3240 REV 0	1766
GED/45500/TS.232	TYPE TESTS FOR COMMUNICATIONS SOUND LEVELS ON THE OSC	GED/47500/REP.4101 REV A	2852
GED/45500/TS.233	TYPE TEST FOR WATERTIGHTNESS OF INTERIOR EQUIPMENT CUPBOARDS ON THE OSC	GED/45500/REP.3447 REV 0	None
GED/45500/TS.236	TYPE AND ROUTINE TESTING OF HEARING LOOP ON THE OSC	GED/45500/REP.4548 REV 00	None
GED/45500/TS.237	TYPE TEST FOR STRUCTURAL INTEGRITY OF CREW WORKSTATIONS UNDER 120 KG LOAD	GED/45500/REP.3164 REV 0	None
GED/45500/TS.239	TYPE (QUALIFICATION) FOR 1500N TESTING OF THE TOILET MODULE DOOR ON THE OSC	GED/45500/REP.3833 REV 0	None
GED/45500/TS.247	SPECIFICATION OPERATOR ENABLE PEDAL - V2 COMBINED ROUTINE AND TYPE TEST ON THE OSC	GED/45500/REP.3607, Rev. 0, GED/45500/REP.4507, Rev. 00	1753
GED/45500/TS.250	ROUTINE AND TYPE TEST SPECIFICATION - GUARD'S AUDIBLE INDICATOR DEVICE (GAID) FOR OSC	GED/45500/REP.3571, REV 0	NONE
GED/45500/TS.256	TYPE TEST SPECIFICATION DEFLATED AIR BAG DETECTION LIMIT SWITCH FOR OSC	GED/45500/REP.3649, REV 0	None
GED/45500/TS.263	TYPE (QUALIFICATION) FOR COMMERCIAL RADIO ON THE OSC	GED/45500/REP.4221, REV A	2226 2852
GED/45500/TS.265	TYPE (QUALIFICATION) TEST SPECIFICATION FOR STAGE 3 TESTING OF THE PROPULSION SYSTEM ON THE OSC	GED/45500/REP.4242, REV A	None
GED/45500/TS.268	THE INTERNAL TEMPERATURE PULL-DOWN TYPE (QUALIFICATION) TESTS FOR THE CLIMATE CONTROL SYSTEM ON THE OSC	GED/45500/REP.3619, REV 0	None
GED/45500/TS.274	WATER TYPE TEST FOR BAR COUPLER ELECTRICAL HEADS ON THE OSC	GED/45500/REP.4441, REV 0	None
GED/45600/TS.004	STATIC VEHICLE WEIGH TYPE TEST	GED/45600/REP.2742 REV A	None