

ASSET MAINTENANCE - SPARE PARTS & INVENTORY NEEDS ANALYSIS

Slide 2: Introduction

Slide 3: Strategy for assessment of appropriate spare parts stockholding

Slides 4&5: Continuous flow chart outlining asset spare parts and inventory needs analysis process

Slide 6: Worksheet '3. Parent Asset Data' (*images*)

Slides 7&8: Worksheet '4. Spares-Inventory Analysis' (*images*)

Slide 9: Worksheet '5. Proprietary Spares – RFI Pro Forma re OEM Supply Chain (*image*)

Slide 10: Worksheet '6. Associated Dropdown Lists (*image*)

Introduction

- ☐ Presentation outlines asset maintenance spare parts and inventory needs analysis using **'MMAPS Asset Maintenance Spare Parts & Inventory Needs Analysis'** workbook.
- ☐ Workbook comprises the following worksheets:
 - **'1. Spares-Inventory Strategy'** (flow chart)
 - **'2. Asset Spares Review Process'** contains a flowchart laying out spares / inventory analysis steps.
 - **'3. Parent Asset Data'** is used to collate the asset criticality, asset maintenance history, future maintenance requirements and OEM data required to support spares and inventory stockholding analysis in worksheet #4.
 - **'4. Spares-Inventory Analysis'** is used to analyse spares and inventory stockholding.
 - **'5. RFI Proforma-OEM Supply Chain'** is a proforma used for requests for supply chain information from OEMs and suppliers such as lead times and unit costs etc.
 - **'6. Associated Dropdown Lists'**
- ☐ Analysis worksheets' features include;
 - Multiple worksheet cell explanatory notes re spare parts analysis and worksheet usage.
 - Automatic shading of active rows and columns on selection to reduce entry errors.
 - Outline grouping of worksheet columns with second tier data (on which top tier data columns depend) to keep worksheet size manageable in terms of data entry and report printing etc.
 - Frequent use of cell dropdown lists to reduce effort and improve effectiveness. Columns with cell dropdown lists are shaded light green.
 - Frequent use of cell formulae to reduce effort and improve effectiveness. Columns with cell formulae are shaded light blue.
- ☐ Slide 3 outlines basic strategy for assessment of appropriate spares stockholding.
- ☐ Slides 4 & 5 form a continuous, animated flow chart outlining the process of spare parts and inventory needs analysis.
- ☐ Slides 6, 7 & 8 show images of worksheets **'3. Parent Asset Data'** and **'4. Spares-Inventory Analysis'** i.e., basic worksheets with outline groups closed and separate images of expanded outline groups
- ☐ Slide 9 shows image of worksheet **'5. RFI Pro Forma-OEM Supply Chain'**
- ☐ Slide 10 shows image of worksheet **'6. Associated Drop Down Lists'**

Strategy for assessment of appropriate spare parts stockholding:

Assessment of maintenance spares stockholding is based on reasonable, realistic assessment of:

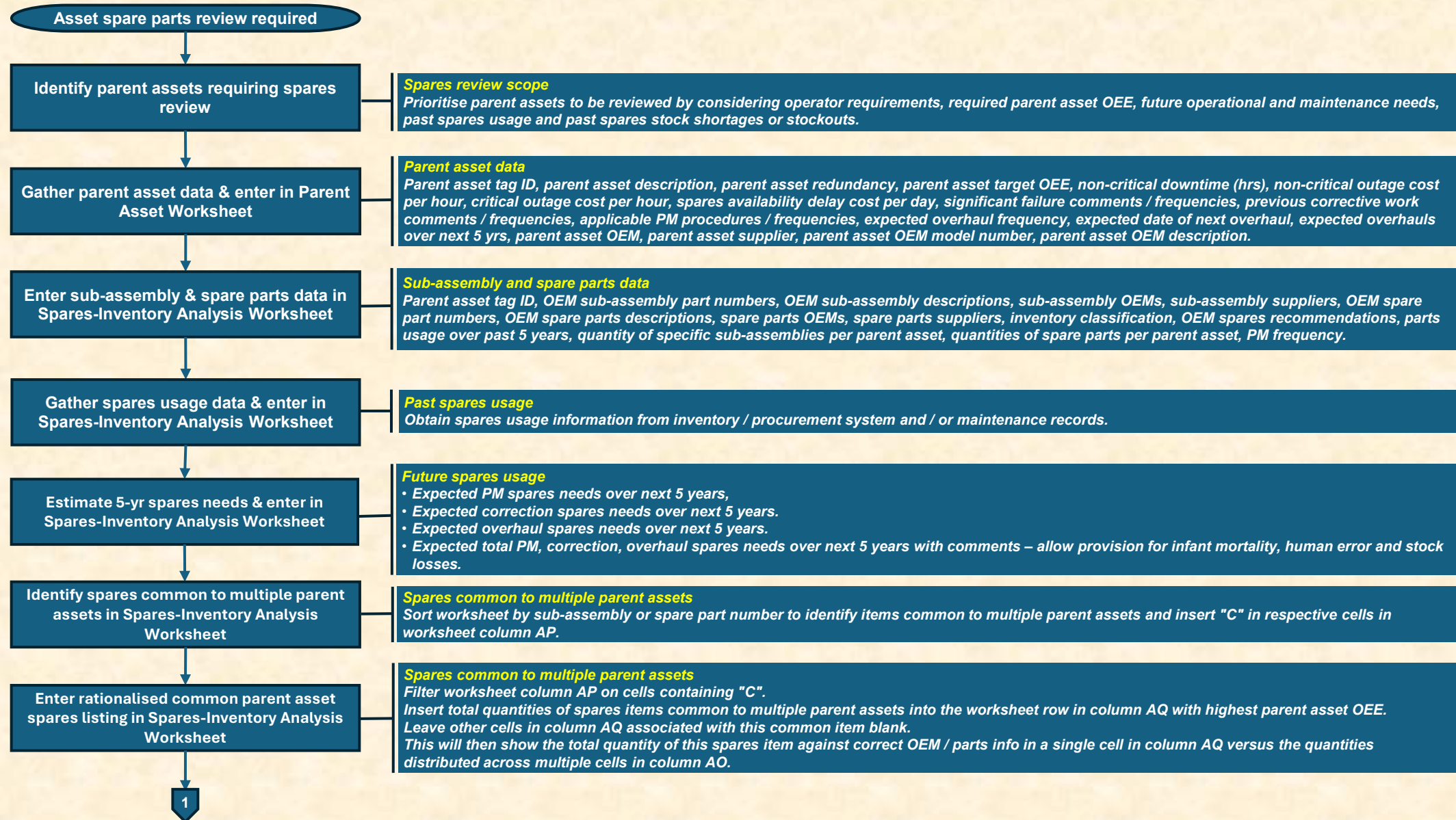
- parent asset criticality according to required OEE.
- spares usage over past 5 years of operation.
- spares likely to be required for on-condition maintenance, preventive maintenance, corrective maintenance, and overhauls of assets over next 5 to 7 years of operation.
- supply chain effectiveness including spares availability, spares delivery lead times and EOQs.

The aim of this approach is to optimise spares availability for maintenance and to minimise inventory levels and effects of any unforeseen operational events in line with assessed demand by ensuring:

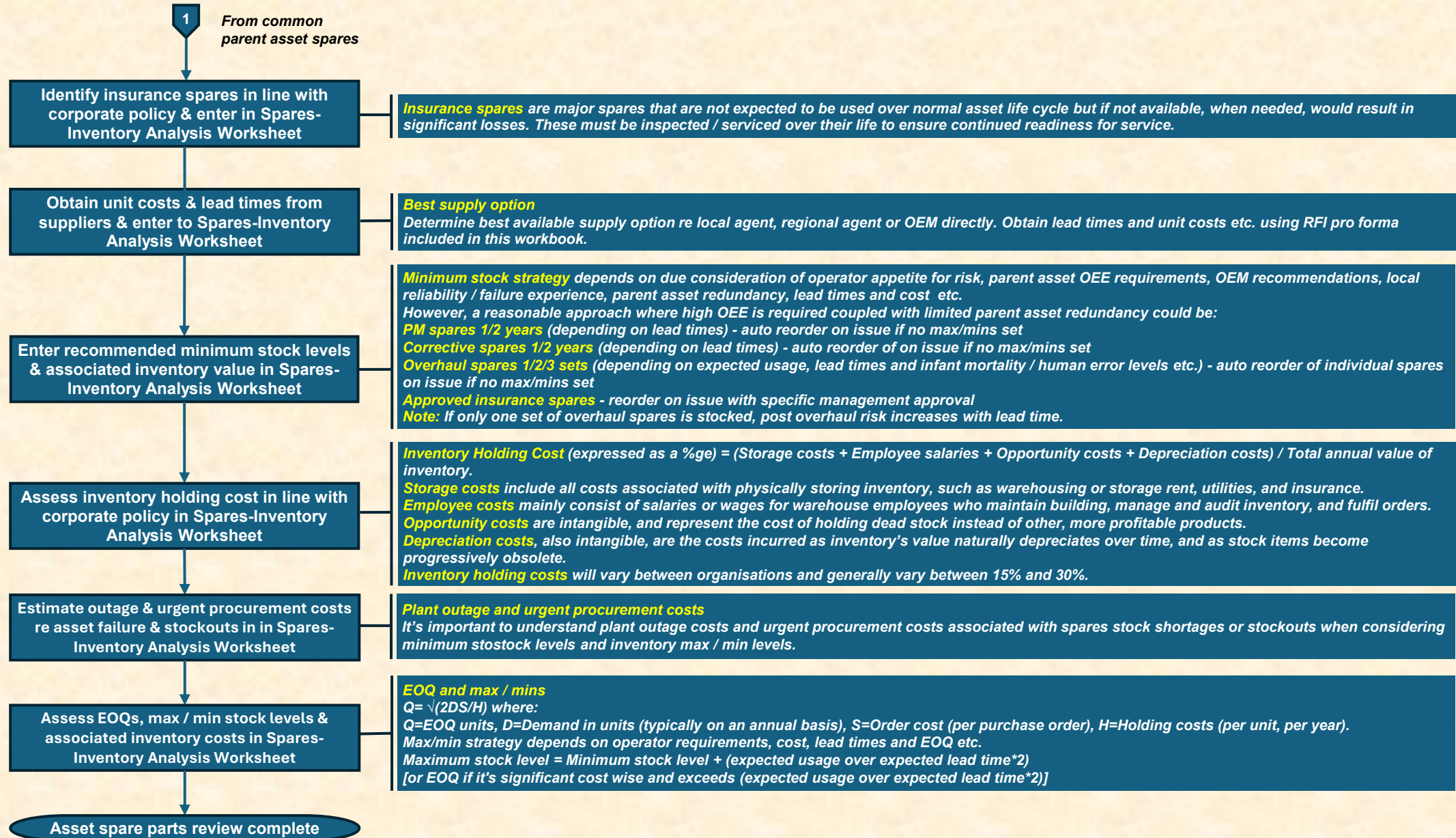
- parent assets are identified and correctly documented.
- appropriate specifications and supply details of spares likely to be needed are identified and documented.
- anticipated spares usage is assessed and documented.
- appropriate inventory maximum and minimum stock levels are identified and documented.

Basing inventory stock holding on historical spares usage, anticipated future corrective / preventive spares usage and minimum future overhaul spares usage minimises risk of stock shortfalls. Stock levels so derived, require regular review and adjustment over time as circumstances and demand change.

FLOW CHART - SPARE PARTS & INVENTORY NEEDS ANALYSIS' - SLIDE 1/2



FLOW CHART - SPARE PARTS & INVENTORY NEEDS ANALYSIS - SLIDE 2/2



WORKSHEET '3. PARENT ASSET DATA'

1	Basic worksheet with one outline group open and one closed																																			
2																																				
	A	B	C	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W																
1	MMAPS			Columns D:F TARGET OEE CRITERIA														Columns K:S PARENT ASSET MAINTENANCE OVERVIEW																		
2	PROPRIETARY SPARE PARTS & INVENTORY NEEDS ANALYSIS - PARENT ASSET DATA																																			
3	Print A3, column DEF group closed																	Formula			Drop down list															
4	Parent Asset Operational Data																	Parent Asset Maintenance Overview										Parent Asset OEM Data								
5																																				
6																																				
7	Tag ID	Description	Redundancy %	Target OEE (%)	Non-critical Downtime (Hours)	Non-critical Outage Cost per Hour (\$)	Critical Outage Cost per Hour (\$)	Previous Significant Failures	Previous Significant Failure Interval (Hours)	Previous Corrective Work Description	Previous Corrective Work Interval (Hours)	Applicable PM Procedures	PM Interval (Hours)	Expected Overhaul Interval (Hours)	Expected Date of Next Overhaul	Expected Overhauls Over Next 5 Years	OEM	Supplier	OEM Model No	OEM Description																
8																																				
9				0%																																
10				0%																																

D	E	F
Inventory Needs Analysis		
Operational Data		
Target OEE Availability (%)	Target OEE Performance (%)	Target OEE Quality (%)

3. Parent Asset Data Worksheet
Columns D/E/F outline group

BS	
Estimated Inventory Holding Cost for Proposed Maximum Stock Levels \$	
\$	-
\$	-

4. Spares-Inventory Analysis Worksheet
Column BS outline group

WORKSHEET '4. SPARES-INVENTORY ANALYSIS' - SLIDE 1/2

Basic worksheet with all outline groups closed

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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Outline groups open – columns AT:CB

		Forecast Tool				
Estimated Usage		Forecast Period Usage (Weeks)				
Quantity	Interval (weeks)	13	26	52	260	520

[illegible]

MMAPS											
PROPRIETARY SPARE PARTS AND INVENTORY NEEDS ANALYSIS											
ASSOCIATED DROP DOWN LISTS											
OEM (Insert codes and names)		SUPPLIER (Insert codes and names)		INVENTORY CLASSIFICATION		LIKLIHOOD OF NEED		STOCK LEVEL SHORTFALL RISK		FREQUENCY / INTERVAL	
CODE	NAME	CODE	NAME	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	Hrs	Period Description
				SAR	Sub-assembly repairable	1	Low	1	Low	40	40 Hr Week
				SANR	Sub-assembly not repairable	2	Medium	2	Medium	80	40 Hr/W Fortnight
				SAI	Sub-assembly insurance	3	High	3	High	160	40 Hr/W Month
				SPC	Spare part consumable					320	40 Hr/W 2-Month
				SPR	Spare part repairable					480	40 Hr/W 3-Month
				SPNR	Spare part not repairable					640	40 Hr/W 4-Month
				SPI	Spare part insurance					960	40 Hr/W 6-Month
										2080	40 Hr/W Year
										3120	40 Hr/W 18-Month
										4160	40 Hr/W 2-Year
										6240	40 Hr/W 3-Year
										8320	40 Hr/W 4-Year
										10400	40 Hr/W 5-Year
										20800	40 Hr/W 10-Year
										168	24 Hr/D Week
										336	24Hr/D Fortnight
										720	24 Hr/D Month (30D)
										1440	24 Hr/D 2-Month (30D)
										2160	24 Hr/D 3-Month (30D)
										2880	24 Hr/D 4-month (30D)
										4320	24 Hr/D 6-Month (30D)
										8760	24 Hr/D Year (365D)
										13080	24 Hr/D 18-Month
										17520	24 Hr/D 2-Year (365D)
										26280	24 Hr/D 3-Year (365D)
										35040	24 Hr/D 4-Year (365D)
										43800	24Hr/D 5-Year (365D)
										87600	24 Hr/D 10-Year (365D)

FREQUENCY / INTERVAL			
Hrs	Period	Hrs	Period
40	40 Hr Week	168	24 Hr/D Week
80	40 Hr/W Fortnight	336	24Hr/D Fortnight
160	40 Hr/W Month	720	24 Hr/D Month (30D)
320	40 Hr/W 2-Month	1440	24 Hr/D 2-Month (30D)
480	40 Hr/W 3-Month	2160	24 Hr/D 3-Month (30D)
640	40 Hr/W 4-Month	2880	24 Hr/D 4-month (30D)
960	40 Hr/W 6-Month	4320	24 Hr/D 6-Month (30D)
2080	40 Hr/W Year	8760	24 Hr/D Year (365D)
3120	40 Hr/W 18-Month	13080	24 Hr/D 18-Month
4160	40 Hr/W 2-Year	17520	24 Hr/D 2-Year (365D)
6240	40 Hr/W 3-Year	26280	24 Hr/D 3-Year (365D)
8320	40 Hr/W 4-Year	35040	24 Hr/D 4-Year (365D)
10400	40 Hr/W 5-Year	43800	24Hr/D 5-Year (365D)
20800	40 Hr/W 10-Year	87600	24 Hr/D 10-Year (365D)