

Basic Document

Page 2

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]

[illegible]







Page 13



[illegible]

[illegible]

Page 16

[illegible]

Page 18



[illegible]

Page 20

[illegible]





[illegible]



Page 24



[illegible]

[illegible]









[illegible]

[illegible]

Page 32



[illegible]



[illegible]

[illegible]



[illegible]

A full-page sheet of white graph paper featuring a uniform grid of thin black horizontal and vertical lines. The grid covers the entire area of the page, providing a template for drawing or writing.

[illegible]

This image shows a full page of blank graph paper. The background is a solid light blue color. Overlaid on this background is a uniform grid of thin, dark gray horizontal and vertical lines. These lines intersect to form a series of small, identical squares across the entire page, providing a guide for drawing or writing. There are no margins, text, or other markings present.



[illegible]

A full-page sheet of white graph paper featuring a uniform grid of thin black horizontal and vertical lines. The grid covers the entire area of the page, providing a template for drawing or writing.

[illegible]

This image shows a full page of blank graph paper. The background is a solid light blue color. Overlaid on this background is a uniform grid of thin, dark gray horizontal and vertical lines. These lines intersect to form a series of small, identical squares across the entire page, providing a guide for drawing or writing. There are no margins, text, or other markings present.



[illegible]

[illegible]

[illegible]

A full-page sheet of white graph paper featuring a uniform grid of thin black horizontal and vertical lines. The grid covers the entire area of the page, providing a template for drawing or writing.

[illegible]



[illegible]

[illegible]

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	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	149
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----





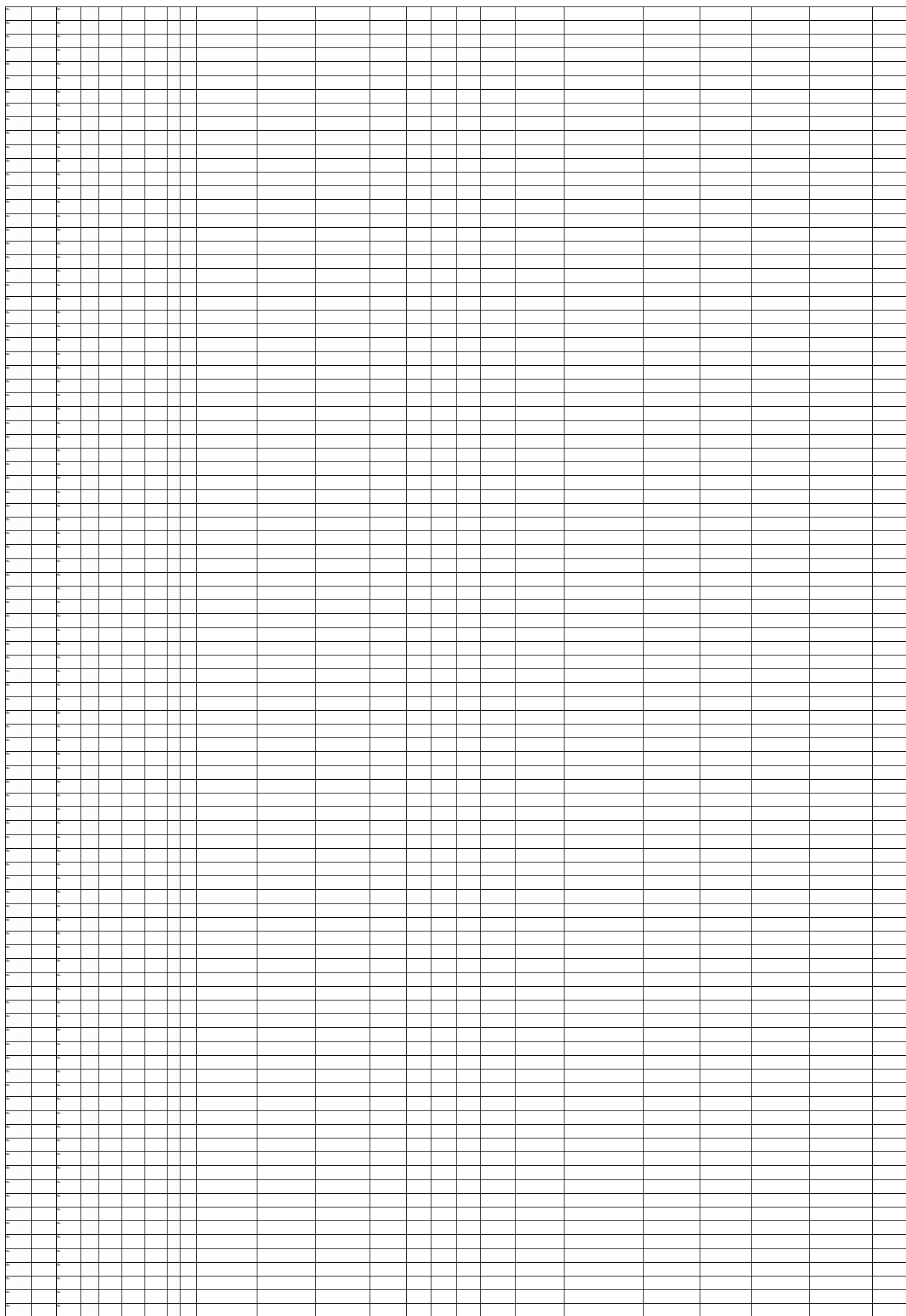


[illegible]

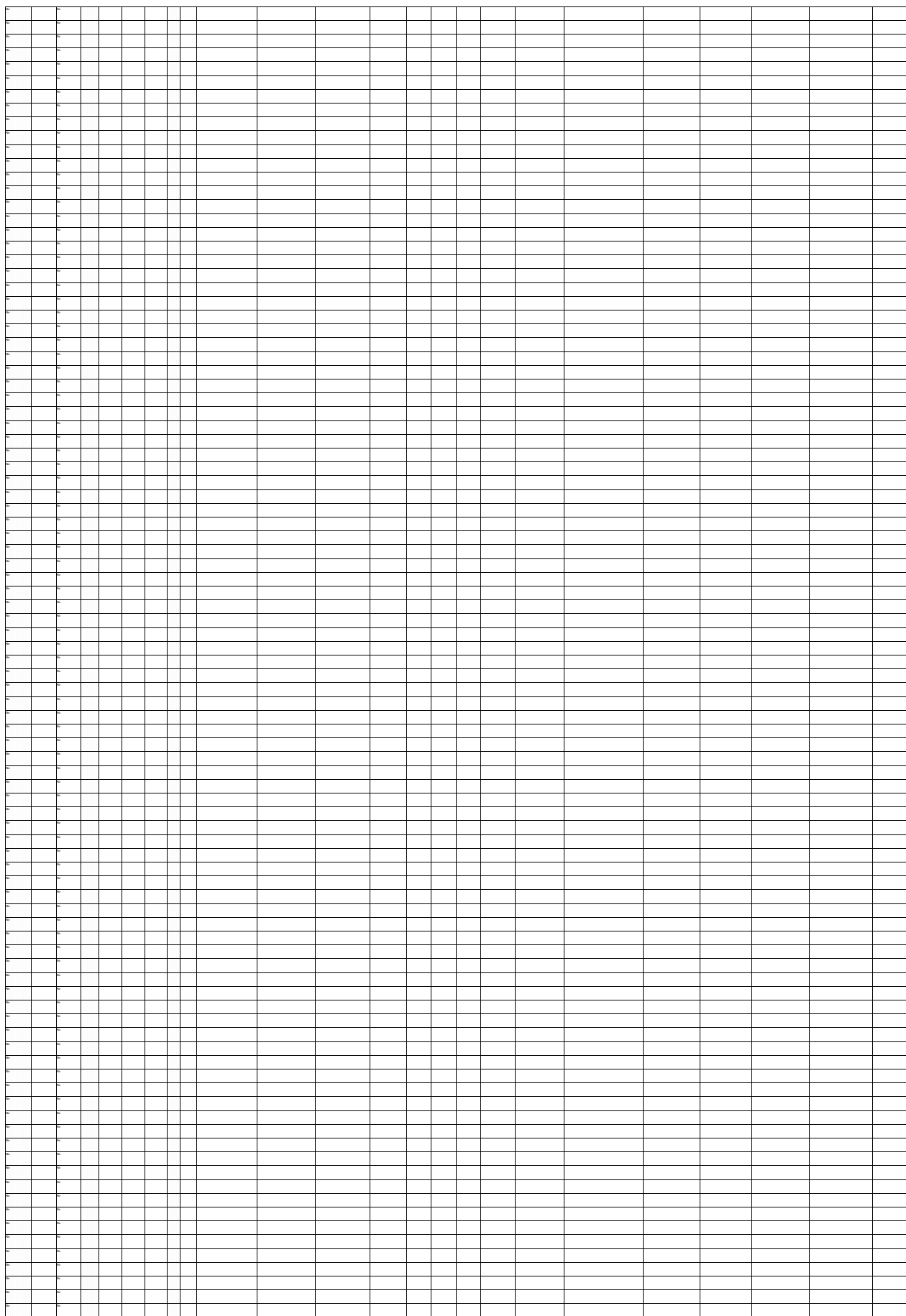


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	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	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	149
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-----









[illegible]

Changes Proposed?	New Item?	Location	Identifier	Chapter	AMP	Program Element	Name	Comments
No	No	<a href="#">Section X.E.1</a>	X.E.1	X	X.E.1		Environmental Qualification (EQ) of Electric Components	
Yes	Yes	<a href="#">Section X.E.1 Operating Experience</a>	X.E.1 Operating Experience	X	X.E.1		Operating Experience	
No	No	<a href="#">Section X.M.1</a>	X.M.1	X	X.M.1		Fatigue Monitoring	
Yes	Yes	<a href="#">Section X.M.1 Operating Experience</a>	X.M.1 Operating Experience	X	X.M.1		Operating Experience	
No	No	<a href="#">Section X.S.1</a>	X.S.1	X	X.S.1		Concrete Containment Tension Pressures	
Yes	Yes	<a href="#">Section X.S.1 Operating Experience</a>	X.S.1 Operating Experience	X	X.S.1		Operating Experience	
No	No	<a href="#">Section XLE.1</a>	XLE.1	XI	XLE.1		Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	
Yes	Yes	<a href="#">Section XLE.1 Detection of Aging</a>	XLE.1 Detection of Aging	XI	XLE.1		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLE.1 Monitoring and Trending</a>	XLE.1 Monitoring and Trending	XI	XLE.1		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLE.1 Operating Experience</a>	XLE.1 Operating Experience	XI	XLE.1		Operating Experience	
Yes	Yes	<a href="#">Section XLE.1 Parameters Monitored/Inspected</a>	XLE.1 Parameters Monitored/Inspected	XI	XLE.1		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLE.1 Scope of Program</a>	XLE.1 Scope of Program	XI	XLE.1		Scope of Program	
No	No	<a href="#">Section XLE.2</a>	XLE.2	XI	XLE.2		Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements Used in Instrumentation Circuits	
Yes	Yes	<a href="#">Section XLE.2 Detection of Aging</a>	XLE.2 Detection of Aging	XI	XLE.2		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLE.2 Monitoring and Trending</a>	XLE.2 Monitoring and Trending	XI	XLE.2		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLE.2 Operating Experience</a>	XLE.2 Operating Experience	XI	XLE.2		Operating Experience	
Yes	Yes	<a href="#">Section XLE.2 Parameters Monitored/Inspected</a>	XLE.2 Parameters Monitored/Inspected	XI	XLE.2		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLE.2 Scope of Program</a>	XLE.2 Scope of Program	XI	XLE.2		Scope of Program	
No	No	<a href="#">Section XLE.3</a>	XLE.3	XI	XLE.3		Inaccessible Power Cables Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	
Yes	Yes	<a href="#">Section XLE.3 Detection of Aging</a>	XLE.3 Detection of Aging	XI	XLE.3		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLE.3 Monitoring and Trending</a>	XLE.3 Monitoring and Trending	XI	XLE.3		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLE.3 Operating Experience</a>	XLE.3 Operating Experience	XI	XLE.3		Operating Experience	
Yes	Yes	<a href="#">Section XLE.3 Parameters Monitored/Inspected</a>	XLE.3 Parameters Monitored/Inspected	XI	XLE.3		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLE.3 Scope of Program</a>	XLE.3 Scope of Program	XI	XLE.3		Scope of Program	
No	No	<a href="#">Section XLE.4</a>	XLE.4	XI	XLE.4		Metal-Enclosed Bus	
Yes	Yes	<a href="#">Section XLE.4 Operating Experience</a>	XLE.4 Operating Experience	XI	XLE.4		Operating Experience	
No	No	<a href="#">Section XLE.5</a>	XLE.5	XI	XLE.5		Fuse Holders	
Yes	Yes	<a href="#">Section XLE.5 Operating Experience</a>	XLE.5 Operating Experience	XI	XLE.5		Operating Experience	
No	No	<a href="#">Section XLE.6</a>	XLE.6	XI	XLE.6		Electrical Cable Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	
Yes	Yes	<a href="#">Section XLE.6 Detection of Aging</a>	XLE.6 Detection of Aging	XI	XLE.6		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLE.6 Monitoring and Trending</a>	XLE.6 Monitoring and Trending	XI	XLE.6		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLE.6 Operating Experience</a>	XLE.6 Operating Experience	XI	XLE.6		Operating Experience	
Yes	Yes	<a href="#">Section XLE.6 Parameters Monitored/Inspected</a>	XLE.6 Parameters Monitored/Inspected	XI	XLE.6		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLE.6 Scope of Program</a>	XLE.6 Scope of Program	XI	XLE.6		Scope of Program	
No	No	<a href="#">Section XLM.1</a>	XLM.1	XI	XLM.1		ASME Section XI Inservice Inspection, Subsections IWB, IWC, and IWD	
Yes	Yes	<a href="#">Section XLM.1 Operating Experience</a>	XLM.1 Operating Experience	XI	XLM.1		Operating Experience	
No	No	<a href="#">Section XLM.10</a>	XLM.10	XI	XLM.10		Boric Acid Corrosion	
Yes	Yes	<a href="#">Section XLM.10 Operating Experience</a>	XLM.10 Operating Experience	XI	XLM.10		Operating Experience	
Yes	Yes	<a href="#">Section XLM.10 References</a>	XLM.10 References	XI	XLM.10		References	
No	No	<a href="#">Section XLM.11B</a>	XLM.11B	XI	XLM.11B		Cracking of Nickel-Alloy Components and Loss of Material Due to Boric Acid-Induced Corrosion in Reactor Coolant Pressure Boundary Components (PWRs)	
Yes	Yes	<a href="#">Section XLM.11B Operating Experience</a>	XLM.11B Operating Experience	XI	XLM.11B		Operating Experience	
No	No	<a href="#">Section XLM.12</a>	XLM.12	XI	XLM.12		Thermal Aging Embrittlement of Cast Austenitic Stainless Steel (CASS)	
Yes	Yes	<a href="#">Section XLM.12 Operating Experience</a>	XLM.12 Operating Experience	XI	XLM.12		Operating Experience	
No	No	<a href="#">Section XLM.16A</a>	XLM.16A	XI	XLM.16A		Reactor Vessel Internals	
Yes	Yes	<a href="#">Section XLM.16A Acceptance Criteria</a>	XLM.16A Acceptance Criteria	XI	XLM.16A		Acceptance Criteria	
Yes	Yes	<a href="#">Section XLM.16A Administrative Controls</a>	XLM.16A Administrative Controls	XI	XLM.16A		Administrative Controls	
Yes	Yes	<a href="#">Section XLM.16A Confirmation Process</a>	XLM.16A Confirmation Process	XI	XLM.16A		Confirmation Process	
Yes	Yes	<a href="#">Section XLM.16A Corrective Actions</a>	XLM.16A Corrective Actions	XI	XLM.16A		Corrective Actions	
Yes	Yes	<a href="#">Section XLM.16A Detection of Aging</a>	XLM.16A Detection of Aging	XI	XLM.16A		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLM.16A Monitoring and Trending</a>	XLM.16A Monitoring and Trending	XI	XLM.16A		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLM.16A Operating Experience</a>	XLM.16A Operating Experience	XI	XLM.16A		Operating Experience	
Yes	Yes	<a href="#">Section XLM.16A Parameters Monitored/Inspected</a>	XLM.16A Parameters Monitored/Inspected	XI	XLM.16A		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLM.16A Preventive Actions</a>	XLM.16A Preventive Actions	XI	XLM.16A		Preventive Actions	
Yes	Yes	<a href="#">Section XLM.16A Program Description</a>	XLM.16A Program Description	XI	XLM.16A		Program Description	
Yes	Yes	<a href="#">Section XLM.16A References</a>	XLM.16A References	XI	XLM.16A		References	
Yes	Yes	<a href="#">Section XLM.16A Scope of Program</a>	XLM.16A Scope of Program	XI	XLM.16A		Scope of Program	
No	No	<a href="#">Section XLM.17</a>	XLM.17	XI	XLM.17		Flow-Accelerated Corrosion	
Yes	Yes	<a href="#">Section XLM.17 Acceptance Criteria</a>	XLM.17 Acceptance Criteria	XI	XLM.17		Acceptance Criteria	
Yes	Yes	<a href="#">Section XLM.17 Administrative Controls</a>	XLM.17 Administrative Controls	XI	XLM.17		Administrative Controls	
Yes	Yes	<a href="#">Section XLM.17 Confirmation Process</a>	XLM.17 Confirmation Process	XI	XLM.17		Confirmation Process	
Yes	Yes	<a href="#">Section XLM.17 Corrective Actions</a>	XLM.17 Corrective Actions	XI	XLM.17		Corrective Actions	
Yes	Yes	<a href="#">Section XLM.17 Detection of Aging</a>	XLM.17 Detection of Aging	XI	XLM.17		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLM.17 Monitoring and Trending</a>	XLM.17 Monitoring and Trending	XI	XLM.17		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLM.17 Operating Experience</a>	XLM.17 Operating Experience	XI	XLM.17		Operating Experience	
Yes	Yes	<a href="#">Section XLM.17 Parameters Monitored/Inspected</a>	XLM.17 Parameters Monitored/Inspected	XI	XLM.17		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLM.17 Preventive Actions</a>	XLM.17 Preventive Actions	XI	XLM.17		Preventive Actions	
Yes	Yes	<a href="#">Section XLM.17 Program Description</a>	XLM.17 Program Description	XI	XLM.17		Program Description	
Yes	Yes	<a href="#">Section XLM.17 References</a>	XLM.17 References	XI	XLM.17		References	
Yes	Yes	<a href="#">Section XLM.17 Scope of Program</a>	XLM.17 Scope of Program	XI	XLM.17		Scope of Program	
No	No	<a href="#">Section XLM.18</a>	XLM.18	XI	XLM.18		Boiling Integrity	
Yes	Yes	<a href="#">Section XLM.18 Detection of Aging</a>	XLM.18 Detection of Aging	XI	XLM.18		Detection of Aging Effects	
Yes	Yes	<a href="#">Section XLM.18 Monitoring and Trending</a>	XLM.18 Monitoring and Trending	XI	XLM.18		Monitoring and Trending	
Yes	Yes	<a href="#">Section XLM.18 Operating Experience</a>	XLM.18 Operating Experience	XI	XLM.18		Operating Experience	
Yes	Yes	<a href="#">Section XLM.18 Parameters Monitored/Inspected</a>	XLM.18 Parameters Monitored/Inspected	XI	XLM.18		Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XLM.18 Scope of Program</a>	XLM.18 Scope of Program	XI	XLM.18		Scope of Program	
No	No	<a href="#">Section XLM.19</a>	XLM.19	XI	XLM.19		Steam Generators	
Yes	Yes	<a href="#">Section XLM.19 Operating Experience</a>	XLM.19 Operating Experience	XI	XLM.19		Operating Experience	

Basis Document:

MARKUP\GALL MARKUP.docx

Yes	Yes	<a href="#">Section XI M19 Parameters</a>	XM19 Parameters	Xi	XM19	Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XI M19 References</a>	XM19 References	Xi	XM19	References	
No	No	<a href="#">Section XI M2</a>	XM2	Xi	XM2	Water Chemistry	
Yes	Yes	<a href="#">Section XI M2 Operating Experience</a>	XM2 Operating Experience	Xi	XM2	Operating Experience	
No	No	<a href="#">Section XI M20</a>	XM20	Xi	XM20	Open-Cycle Cooling Water System	
Yes	Yes	<a href="#">Section XI M20 Operating Experience</a>	XM20 Operating Experience	Xi	XM20	Operating Experience	
Yes	Yes	<a href="#">Section XI M20 Scope of Program</a>	XM20 Scope of Program	Xi	XM20	Scope of Program	
No	No	<a href="#">Section XI M21A</a>	XM21A	Xi	XM21A	Closed Treated Water Systems	
Yes	Yes	<a href="#">Section XI M21A Detection of Aging</a>	XM21A Detection of Aging	Xi	XM21A	Detection of Aging Effects	
Yes	Yes	<a href="#">Section XI M21A Operating Experience</a>	XM21A Operating Experience	Xi	XM21A	Operating Experience	
Yes	Yes	<a href="#">Section XI M21A Scope of Program</a>	XM21A Scope of Program	Xi	XM21A	Scope of Program	
No	No	<a href="#">Section XI M22</a>	XM22	Xi	XM22	Boralex Monitoring	
Yes	Yes	<a href="#">Section XI M22 Operating Experience</a>	XM22 Operating Experience	Xi	XM22	Operating Experience	
No	No	<a href="#">Section XI M23</a>	XM23	Xi	XM23	Inspection of Overhead Heavy Load and Light Load (Related to Refueling) Handling Systems	
Yes	Yes	<a href="#">Section XI M23 Operating Experience</a>	XM23 Operating Experience	Xi	XM23	Operating Experience	
No	No	<a href="#">Section XI M24</a>	XM24	Xi	XM24	Compressed Air Monitoring	
Yes	Yes	<a href="#">Section XI M24 Operating Experience</a>	XM24 Operating Experience	Xi	XM24	Operating Experience	
Yes	Yes	<a href="#">Section XI M24 Scope of Program</a>	XM24 Scope of Program	Xi	XM24	Scope of Program	
No	No	<a href="#">Section XI M25</a>	XM25	Xi	XM25	BWR Reactor Water Cleanup System	
Yes	Yes	<a href="#">Section XI M25 Operating Experience</a>	XM25 Operating Experience	Xi	XM25	Operating Experience	
No	No	<a href="#">Section XI M26</a>	XM26	Xi	XM26	Fire Protection	
Yes	Yes	<a href="#">Section XI M26 Monitoring and Trending</a>	XM26 Monitoring and Trending	Xi	XM26	Monitoring and Trending	
Yes	Yes	<a href="#">Section XI M26 Operating Experience</a>	XM26 Operating Experience	Xi	XM26	Operating Experience	
No	No	<a href="#">Section XI M27</a>	XM27	Xi	XM27	Fire Water System	
Yes	Yes	<a href="#">Section XI M27 Acceptance Criteria</a>	XM27 Acceptance Criteria	Xi	XM27	Acceptance Criteria	
Yes	Yes	<a href="#">Section XI M27 Detection of Aging</a>	XM27 Detection of Aging	Xi	XM27	Detection of Aging Effects	
Yes	Yes	<a href="#">Section XI M27 Monitoring and Trending</a>	XM27 Monitoring and Trending	Xi	XM27	Monitoring and Trending	
Yes	Yes	<a href="#">Section XI M27 Operating Experience</a>	XM27 Operating Experience	Xi	XM27	Operating Experience	
Yes	Yes	<a href="#">Section XI M27 Parameters Monitored/Inspected</a>	XM27 Parameters Monitored/Inspected	Xi	XM27	Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XI M27 Preventive Actions</a>	XM27 Preventive Actions	Xi	XM27	Preventive Actions	
Yes	Yes	<a href="#">Section XI M27 Program Description</a>	XM27 Program Description	Xi	XM27	Program Description	
Yes	Yes	<a href="#">Section XI M27 References</a>	XM27 References	Xi	XM27	References	
Yes	Yes	<a href="#">Section XI M27 Scope of Program</a>	XM27 Scope of Program	Xi	XM27	Scope of Program	
No	No	<a href="#">Section XI M29</a>	XM29	Xi	XM29	Aboveground Metallic Tanks	
Yes	Yes	<a href="#">Section XI M29 Acceptance Criteria</a>	XM29 Acceptance Criteria	Xi	XM29	Acceptance Criteria	
Yes	Yes	<a href="#">Section XI M29 Detection of Aging</a>	XM29 Detection of Aging	Xi	XM29	Detection of Aging Effects	
Yes	Yes	<a href="#">Section XI M29 Monitoring and Trending</a>	XM29 Monitoring and Trending	Xi	XM29	Monitoring and Trending	
Yes	Yes	<a href="#">Section XI M29 Operating Experience</a>	XM29 Operating Experience	Xi	XM29	Operating Experience	
Yes	Yes	<a href="#">Section XI M29 Parameters Monitored/Inspected</a>	XM29 Parameters Monitored/Inspected	Xi	XM29	Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XI M29 Preventive Actions</a>	XM29 Preventive Actions	Xi	XM29	Preventive Actions	
Yes	Yes	<a href="#">Section XI M29 Program Description</a>	XM29 Program Description	Xi	XM29	Program Description	
Yes	Yes	<a href="#">Section XI M29 References</a>	XM29 References	Xi	XM29	References	
Yes	Yes	<a href="#">Section XI M29 Scope of Program</a>	XM29 Scope of Program	Xi	XM29	Scope of Program	
No	No	<a href="#">Section XI M3</a>	XM3	Xi	XM3	Reactor Head Closure Stud Bolting	
Yes	Yes	<a href="#">Section XI M3 Operating Experience</a>	XM3 Operating Experience	Xi	XM3	Operating Experience	
No	No	<a href="#">Section XI M30</a>	XM30	Xi	XM30	Fuel Oil Chemistry	
Yes	Yes	<a href="#">Section XI M30 Operating Experience</a>	XM30 Operating Experience	Xi	XM30	Operating Experience	
Yes	Yes	<a href="#">Section XI M30 Scope of Program</a>	XM30 Scope of Program	Xi	XM30	Scope of Program	
No	No	<a href="#">Section XI M31</a>	XM31	Xi	XM31	Reactor Vessel Surveillance	
Yes	Yes	<a href="#">Section XI M31 Operating Experience</a>	XM31 Operating Experience	Xi	XM31	Operating Experience	
No	No	<a href="#">Section XI M32</a>	XM32	Xi	XM32	One-Time Inspection	
Yes	Yes	<a href="#">Section XI M32 Operating Experience</a>	XM32 Operating Experience	Xi	XM32	Operating Experience	
No	No	<a href="#">Section XI M33</a>	XM33	Xi	XM33	Selective Leaching	
Yes	Yes	<a href="#">Section XI M33 Detection of Aging</a>	XM33 Detection of Aging	Xi	XM33	Detection of Aging Effects	
Yes	Yes	<a href="#">Section XI M33 Operating Experience</a>	XM33 Operating Experience	Xi	XM33	Operating Experience	
No	No	<a href="#">Section XI M35</a>	XM35	Xi	XM35	One-Time Inspection of ASME Code Class 1 Small Bore-Piping	
Yes	Yes	<a href="#">Section XI M35 Operating Experience</a>	XM35 Operating Experience	Xi	XM35	Operating Experience	
No	No	<a href="#">Section XI M36</a>	XM36	Xi	XM36	External Surfaces Monitoring of Mechanical Components	
Yes	Yes	<a href="#">Section XI M36 Acceptance Criteria</a>	XM36 Acceptance Criteria	Xi	XM36	Acceptance Criteria	
Yes	Yes	<a href="#">Section XI M36 Detection of Aging</a>	XM36 Detection of Aging	Xi	XM36	Detection of Aging Effects	
Yes	Yes	<a href="#">Section XI M36 Monitoring and Trending</a>	XM36 Monitoring and Trending	Xi	XM36	Monitoring and Trending	
Yes	Yes	<a href="#">Section XI M36 Operating Experience</a>	XM36 Operating Experience	Xi	XM36	Operating Experience	
Yes	Yes	<a href="#">Section XI M36 Parameters Monitored/Inspected</a>	XM36 Parameters Monitored/Inspected	Xi	XM36	Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XI M36 Preventive Actions</a>	XM36 Preventive Actions	Xi	XM36	Preventive Actions	
Yes	Yes	<a href="#">Section XI M36 Program Description</a>	XM36 Program Description	Xi	XM36	Program Description	
Yes	Yes	<a href="#">Section XI M36 Scope of Program</a>	XM36 Scope of Program	Xi	XM36	Scope of Program	
No	No	<a href="#">Section XI M37</a>	XM37	Xi	XM37	Flux Yemble Tube Inspection	
Yes	Yes	<a href="#">Section XI M37 Operating Experience</a>	XM37 Operating Experience	Xi	XM37	Operating Experience	
No	No	<a href="#">Section XI M38</a>	XM38	Xi	XM38	Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components	
Yes	Yes	<a href="#">Section XI M38 Acceptance Criteria</a>	XM38 Acceptance Criteria	Xi	XM38	Acceptance Criteria	
Yes	Yes	<a href="#">Section XI M38 Administrative Controls</a>	XM38 Administrative Controls	Xi	XM38	Administrative Controls	
Yes	Yes	<a href="#">Section XI M38 Confirmation Process</a>	XM38 Confirmation Process	Xi	XM38	Confirmation Process	
Yes	Yes	<a href="#">Section XI M38 Detection of Aging</a>	XM38 Detection of Aging	Xi	XM38	Detection of Aging Effects	
Yes	Yes	<a href="#">Section XI M38 Monitoring and Trending</a>	XM38 Monitoring and Trending	Xi	XM38	Monitoring and Trending	
Yes	Yes	<a href="#">Section XI M38 Operating Experience</a>	XM38 Operating Experience	Xi	XM38	Operating Experience	
Yes	Yes	<a href="#">Section XI M38 Parameters Monitored/Inspected</a>	XM38 Parameters Monitored/Inspected	Xi	XM38	Parameters Monitored/Inspected	
Yes	Yes	<a href="#">Section XI M38 Program Description</a>	XM38 Program Description	Xi	XM38	Program Description	
Yes	Yes	<a href="#">Section XI M38 Scope of Program</a>	XM38 Scope of Program	Xi	XM38	Scope of Program	

[illegible]



[illegible]

[illegible]

[illegible]

Changes Proposed?	New Item?	Location	GALL Chapter	GALL Program	Description of Program	Implementation Schedule*	Applicable GALL Report and SRP-LR Chapter References	Comments
No	No		GALL Appendix A	Quality Assurance	The 10 CFR Part 50, Appendix B quality assurance program provides for corrective actions, the confirmation process, and administrative controls for AMPs for license renewal. The scope of this existing program is expanded to include nonsafety-related structures and components that are subject to an AMR for license renewal.	Existing program	GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL III / SRP 3.5 GALL VI / SRP 3.6	
Yes	Yes	Table 3.0-1, GALL Appendix B	GALL Appendix B	Operating Experience	<u>Operating experience from plant-specific and industry sources is captured and systematically reviewed on an ongoing basis in accordance with the quality assurance program, which meets the requirements of 10 CFR Part 50, Appendix B, and the operating experience program, which meets the requirements of NUREG-0734, "Verification of TMI Action Plan Requirements," Item 1.0.6, "Procedures for Feedback of Operating Experience to Plant Staff."</u> The operating experience program interfaces with and relies on <u>active participation in the Institute of Nuclear Power Operations' operating experience program, as endorsed by the NRC, in accordance with these programs. All non-safety-related experience items are screened to determine whether they may involve age-related degradation or aging management impacts. Items so identified are further evaluated and the AMPs are either enhanced or new AMPs are developed, as appropriate, when it is determined through these evaluations that the effects of aging may not be adequately managed. Training on age-related degradation and aging management is provided to those personnel responsible for implementing the AMPs and who may, in turn, assess, design, evaluate, or otherwise manage plant-specific and industry operating experience. Plant-specific operating experience associated with aging management and age-related degradation is reported to the industry in accordance with guidelines established in the operating experience program.</u>	Existing Program	GALL VIII / SRP 3.4 GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.6 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		SRP Appendix A	Plant-Specific AMP	The program should contain information associated with the bases for determining that aging effects will be managed during the period of extended operation.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4 GALL B-III / SRP 3.5 GALL VI / SRP 3.6	
No	No		XI.E.1	Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	The program consists of accessible electrical cables and connections installed in adverse localized environments to be visually inspected at least once every 10 years for cable jacket and connection insulation surface anomalies, such as embrittlement, discoloration, cracking, melting, swelling, or surface contamination, that could indicate incipient conductor insulation aging degradation from temperature, radiation, or moisture.	First inspection for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E.2	Insulation Material for Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements Used in Instrumentation Circuits	The program calls for the review of calibration results or findings of surveillance tests on electrical cables and connections used in circuits with sensitive, high-voltage, low-level current signals, such as radiation monitoring and nuclear instrumentation, to provide an indication of the existence of aging effects based on acceptance criteria related to instrumentation circuit performance. By reviewing the results obtained during normal calibration or surveillance, an applicant may detect severe aging degradation prior to the loss of the cable and connection intended function. The review of calibration results or findings of surveillance tests is performed at least once every 10 years. In cases where cables are not included as part of calibration or surveillance program testing circuit, a proven cable test (such as insulation resistance tests, time domain reflectometry tests, or other testing judged to be effective in determining cable system insulation condition as justified in the application) is performed. The test frequency is based on engineering evaluation and is at least once every 10 years.	First review of calibration results or findings of surveillance test results or cable tests for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E.3	Inaccessible Power Cables Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	The program calls for inaccessible or underground (e.g. in conduit, duct bank, or direct buried) power (greater than or equal to 480 volts) cables exposed to significant moisture, to be tested at least once every 8 years to provide an indication of the condition of the conductor insulation. The specific type of test to be used should be capable of detecting reduced insulation resistance of the cable's insulation system due to wetting or submergence. The applicant can assess the condition of the cable insulation with reasonable confidence using one or more of the following techniques: Dielectric Loss (Dissipation Factor/Power Factor), AC Voltage Withstand, Partial Discharge, Step Voltage, Time Domain Reflectometry, Insulation Resistance and Polarization Index, Line Resonance Analysis, or other testing that is state-of-the-art at the time the tests are performed. One or more tests are used to determine the condition of the cables so they will continue to meet their intended function during the period of extended operation. The inspection frequency for water collection is established and performed based on plant-specific operating experience with cable wetting or submergence in manholes (i.e., the inspection is performed periodically based on water accumulation over time and event driven occurrences such as heavy rain or flooding). The periodic inspection should occur at least annually. The inspection should include direct observation that cables are not wetted or submerged, that cables/splices and cable support structures are intact, and dewatering/drainage systems (i.e., sump pumps) and associated alarms operate properly. In addition, operation of dewatering devices should be inspected and operation verified prior to any known or predicted heavy rain or flooding events.	First tests or first inspections for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E.4	Metal Enclosed Bus	The program calls for the visual inspection of metal enclosed bus (MEB) internal surfaces to detect age-related degradation, including cracks, corrosion, foreign debris, excessive dust buildup, and evidence of moisture intrusion. MEB insulating material is visually inspected for signs of embrittlement, cracking, chipping, melting, swelling, discoloration, or surface contamination, which may indicate overheating or aging degradation. The internal bus insulating supports are visually inspected for structural integrity and signs of cracks. MEB external surfaces are visually inspected for loss of material due to general pitting, and crevice corrosion. Accessible elastomers (e.g., gaskets, boots, and sealants) are inspected for degradation, including surface cracking, crazing, scuffing, and changes in dimensions (e.g., "ballooning" and "necking"), shrinkage, discoloration, hardening and loss of strength. A sample of accessible bolted connections is inspected for increased resistance of connection by using thermography or by measuring connection resistance using a micro-ohmmeter. These inspections are performed at least once every 10 years. As an alternative to thermography or measuring connection resistance of accessible bolted connections covered with heat shrink tape, sleeving, insulating boots, etc., the applicant may use visual inspection of insulation material to detect surface anomalies, such as embrittlement, cracking, chipping, melting, discoloration, swelling, or surface contamination. When this alternative visual inspection is used to check bolted connections, the first inspection is completed prior to the period of extended operation and every 5 years thereafter.	First inspection for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E.5	Fuse Holders	The program consists of fuse holders within the scope of license renewal to be tested at least once every 10 years to provide an indication of the condition of the metallic clamp portion of the fuse holders. Testing may include thermography, contact resistance testing, or other appropriate testing methods.	First tests for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	
No	No		XI.E.6	Electrical Cable Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements	The program consists of a representative sample of electrical connections within the scope of license renewal, which is tested at least once prior to the period of extended operation to confirm that there are no aging effects requiring management during that period. Testing may include thermography, contact resistance testing, or other appropriate testing methods without removing the connection insulation, such as heat shrink tape, sleeving, insulating boots, etc. The one-time test provides additional confirmation to support in-dashy operating experience that shows that electrical connections have not experienced a high degree of failures and that existing installation and maintenance practices are effective. As an alternative to thermography or measuring connection resistance of the cable connection sample, for the accessible cable connections that are covered with heat shrink tape, sleeving, insulating boots, etc., the applicant may use visual inspection of insulation materials to detect surface anomalies, such as embrittlement, cracking, chipping, melting, discoloration, swelling, or surface contamination. When this alternative visual inspection is used to check cable connections, the first inspection is completed prior to the period of extended operation and every 5 years thereafter.	First tests for license renewal completed prior to the period of extended operation	GALL VI / SRP 3.6	

Basis Document:

MARKUP/SRP-LR MARKUP.docx

No	No		XLM1	ASME Section XI Inservice Inspection, Subsections IWB, IWC, and IWD	The program consists of periodic volumetric, surface, and/or visual examination of American Society of Mechanical Engineers (ASME) Class 1, 2, and 3 pressure-retaining components, including welds, pump casings, valve bodies, integral attachments, and pressure-retaining bolting for assessment, signs of degradation, and corrective actions. This program is in accordance with the ASME Code Section XI edition and addenda approved in accordance with provisions of 10 CFR 50.55a during the period of extended operation.	Existing program	GALL IV / SRP 3.1 GALL VII / SRP 3.3	
No	No		XLM10	Boric Acid Corrosion	The program consists of (a) visual inspection of external surfaces that are potentially exposed to boric acid water leakage, (b) timely discovery of leak path and removal of the boric acid residues, (c) assessment of the damage, and (d) follow-up inspection for adequacy. This program is implemented in response to NRC GL 88-05 and recent operating experience.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.6 GALL VII / SRP 3.3 GALL VIII / SRP 3.4 GALL III / SRP 3.5	
No	No		XLM11B	Cracking of Nickel-Alloy Components and Loss of Material due to Boric Acid-Induced Corrosion in Reactor Coolant Pressure Boundary Components (PWRs only)	This program addresses cracking of nickel-alloy components and loss of material due to boric acid-induced corrosion in susceptible, safety-related components in the vicinity of nickel-alloy reactor coolant pressure boundary components. It provides (a) inspection requirements for the PWR vessel, steam generator, pressurizer components, and piping if they contain the primary water stress corrosion cracking (PWSCC) susceptible materials designated alloys 600/82/182 and (b) inspection requirements for reactor pressure vessel upper heads.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
No	No		XLM12	Thermal Aging Embrittlement of Cast Austenitic Stainless Steel (CASS)	The program consists of the determination of the susceptibility of CASS piping, piping components, and piping elements in PWR emergency core cooling system (ECCS) systems, including interfacing pipe lines to the chemical and volume control system and to the spent fuel pool, and in BWR ECCS systems, including interfacing pipe lines to the suppression chamber and to the drywell and suppression chamber spray system in regard to thermal aging embrittlement based on the casting method, molybdenum content, and ferrite percentage. For potentially susceptible piping, aging management is accomplished either through enhanced volumetric examination or component-specific flaw tolerance evaluation.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2	
Yes	No	Table 3.0-1, XLM16A	XLM16A	PWR Vessel Internals	<del>The program relies on implementation of the <u>inspection and evaluation guidelines</u> in EPRI Technical Report No. 102263-14-4444 (MRP-227A) and EPRI Technical Report No. 1016609 (MRP-228) to manage the aging effects on the reactor vessel internal components. This program is used to manage (a) <u>various forms of</u> cracking, including <u>stress corrosion cracking, primary water stress corrosion cracking, PWR-PWSCC</u>, irradiation-assisted stress corrosion cracking, and <u>fatigue</u> cracking due to fatigue/cyclical loading; (b) loss of material induced by wear; (c) loss of fracture toughness due to either thermal aging <u>or</u> neutron irradiation embrittlement <u>or</u> void swelling; (d) dimensional changes <u>and</u> <u>potential loss of fracture toughness</u> due to void swelling <u>or</u> <u>distortion and irradiation growth</u>; and (e) loss of preload due to thermal and irradiation-enhanced stress relaxation or creep.</del>	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
Yes	No	Table 3.0-1, XLM17	XLM17	Flow-Accelerated Corrosion (FAC)	<del>The program consists of (a) conducting appropriate analysis and baseline inspections, (b) determining the extent of thinning and replacement/repair of components, and (c) performing follow-up inspections to confirm or quantify and take long-term corrective actions. The program relies on implementation of EPRI guidelines of NSAC-202L-R2 or R3. <u>Where applicable, the program also manages wall thinning due to erosion mechanisms such as cavitation, flashing, droplet impingement, and solid particle impingement.</u></del>	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 <del>GALL VII / SRP 3.3</del> GALL VIII / SRP 3.4	
Yes	No	Table 3.0-1, XLM18	XLM18	Bolting Integrity	This program focuses on closure bolting for pressure-retaining components and relies on recommendations for a comprehensive bolting integrity program, as delineated in NUREG-1330 and industry recommendations, as delineated in EPRI NP-5769, with the exceptions noted in NUREG-1339 for safety-related bolting. The program also relies on industry recommendations for comprehensive bolting maintenance, as delineated in the EPRI TR-104213. The program generally includes periodic inspection of closure bolting for indications of loss of preload, cracking, and loss of material due to corrosion, rust, etc. The program also includes preventive measures to preclude or minimize loss of preload and cracking. A related aging management program (AMRP) XLM1, "ASME Section XI Inservice Inspection (ISI) Subsections IWB, IWC, and IWD," includes inspections of safety-related and non-safety-related closure bolting and supplements this bolting integrity program. Other related programs, AMRP XI S1, "ASME Section XI, Subsection IWE"; XI S3, "ASME Section XI Subsection IWF"; XI S6, "Structures Monitoring"; XI S7, "RG 1.127, "Inspection of Water-Control Structures Associated with Nuclear Power Plant"; and XI M23, "Inspection of Overhead Heavy Load and Light Load (Related to Refueling) Handling Systems," manage the inspection of safety-related and non-safety related structural bolting.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XLM19	Steam Generators	This program consists of aging management activities for the steam generator tubes, plugs, sleeves, and secondary side components that are contained within the steam generator in accordance with the plant technical specifications and includes commitments to NEI 97-06.	Existing program	GALL IV / SRP 3.1	
No	No		XLM2	Water Chemistry	This program mitigates aging effects of loss of material due to corrosion, cracking due to stress corrosion cracking (SCC) and related mechanisms, and reduction of heat transfer due to fouling in components exposed to a treated water environment. Chemistry programs are used to control water chemistry for impurities (e.g., chloride, fluoride, and sulfate) that accelerate corrosion. This program relies on monitoring and control of water chemistry to keep peak levels of various contaminants below the system-specific limits, based on Electric Power Research Institute (EPRI) guidelines (a) BWRVRP-100 (EPRI 1016579, BWR Water Chemistry Guidelines – 2008 Revision) for BWRs or (b) EPRI 1014986 (PWR Primary Water Chemistry – Revision 6) and EPRI 1016555 (PWR Secondary Water Chemistry – Revision 7) for pressurized water reactors (PWRs).	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4 GALL III / SRP 3.5	
No	No		XLM20	Open-Cycle Cooling Water System	This program relies on implementing NRC GL 89-13, which includes (a) surveillance and control of boiling, (b) tests to verify heat transfer, (c) routine inspection and maintenance program, (d) system shutdown inspection, and (e) review of maintenance, operating, and training practices and procedures. The Open-Cycle Cooling Water System program applies to components constructed of various materials, including steel, stainless steel, aluminum copper alloys, polymeric materials, and concrete.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4	

Yes	No	Table 3.0-1, XLM21A	XLM21A	Closed Treated Water Systems	The program includes (a) water treatment, including the use of corrosion inhibitors, to modify the chemical composition of the water such that the function of the equipment is maintained and such that the effects of corrosion are minimized; (b) chemical testing of the water to ensure that the water treatment program maintains the water chemistry within acceptable guidelines; and (c) inspections to determine the presence or extent of corrosion and/or cracking.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XLM22	Boraflex Monitoring	The program consists of (a) neutron attenuation testing ("blackness testing") to determine gap formation, (b) sampling for the presence of silica in the spent fuel pool along with boron loss, and (c) monitoring and analysis of criticality to assure that the required 5% sub-criticality margin is maintained. This program is implemented in response to NRC GL 96-04.	Existing program	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XLM23	XLM23	Inspection of Overhead Heavy Load and Light Load Handling Related to Refueling/Handling Systems	The program evaluates the effectiveness of the maintenance monitoring program and the effects of past and future usage on the structural reliability of cranes and hoists. The number and magnitude of lifts made by the hoist or crane are also reviewed. Rails and girders are visually inspected on a routine basis for degradation; functional tests are performed to assure their integrity. These cranes must also comply with the maintenance rule requirements provided in 10 CFR 50.65.	Existing program	GALL VII / SRP 3.3	
No	No		XLM24	Compressed Air Monitoring	The program consists of monitoring moisture content and corrosion, and performance of the entire system, including (a) preventive monitoring of water (moisture), and other contaminants to keep within the specified limits and (b) inspection of components for indications of loss of material due to corrosion. This program is in response to NRC GL 88-14 and INPO's Significant Operating Experience Report (SOER) 88-01. It also relies on the ASME OM Guide Part 17 and ISA-S7.0.1-1996 as guidance for testing and monitoring air quality and moisture.	Existing program	GALL VII / SRP 3.3	
No	No		XLM25	BWR Reactor Water Cleanup System	This program includes ISI and monitoring and control of reactor coolant water chemistry. Related to the inspection guidelines for RWCU piping welds outboard of the second isolation valve, the program includes measures delineated in NUREG-0313, Revision 2, and NRC GL 88-01 and ISI in conformance with the ASME Section XI.	Existing program	GALL VII, SRP 3.3	
No	No		XLM26	Fire Protection	The program includes fire barrier inspections. The fire barrier inspection program requires periodic visual inspection of fire barrier penetration seals, fire barrier walls, ceilings, and floors, and periodic visual inspection and functional tests of fire-rated doors to ensure that their operability is maintained. The program also includes periodic inspection and testing of halon/carbon dioxide fire suppression systems.	Existing program	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XLM27	XLM27	Fire Water System	<p>This program <del>manages the elements of material degradation—full-flow flush-out, system performance tests to prevent corrosion, isolation MOC, full-flow fire-testing elements in the fire protection system, and flow blockage because of fouling. This program manages the aging effects through the use of flow testing and visual inspections performed in accordance with the 2011 Edition of NFPA 25—Testing, or replacement of sprinklers that have been in place for 50 years is performed in accordance with the 2011 Edition of NFPA 25. In addition to NFPA codes and standards, portions of the water-based fire protection system that are: (a) normally dry but periodically subjected to flow (e.g., dry pipe or pre-action sprinkler system components) and that cannot be drained or allow water to collect are to be subjected to augmented testing beyond that specified in NFPA 25, including: (a) periodic full flow tests at the design pressure and flow rate or internal visual inspections and (b) volumetric wall thickness examinations. Flow testing and visual inspections are performed at intervals specified in the 2011 Edition of NFPA 25. The water-based fire protection system is normally maintained at required operating pressure and is monitored such that loss of system pressure is immediately detected and corrective actions initiated.</del></p> <p><del>The program relies on the testing of piping and components in the water-based fire protection system in accordance with applicable National Fire Protection Association (NFPA) commitments. In addition, this program can be modified to include two portions of the fire protection system that are subjected to full-flow tests prior to the period of extended operation and (b) portions of the fire protection system exposed to water are internally visually inspected.</del></p>	<p>Program is <del>should be</del> implemented <del>5 years before the</del> <u>begin 10 years before the period of extended operation.</u></p> <p><del>Inspections of wetted normally dry piping segments that cannot be drained or that allow water to collect begin 5 years before the period of extended operation. The program's maintenance inspections begin during the period of extended operation.</del></p>	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XLM29	XLM29	Aboveground Metallic Tanks	<p>This program includes outdoor tanks sited on soil or concrete and indoor large volume tanks containing water designed with internal pressures approximating atmospheric pressure that are sited on concrete. The program includes preventive measures to mitigate corrosion by protecting the external surfaces of steel components, per standard industry practice, and with sealant or caulking for outdoor tanks at the concrete-component interface. External visual examinations are <del>visual inspection during pre-extended operation</del> <u>visual inspection during pre-extended operation</u> <del>system walkdowns should be sufficient to monitor degradation of the protective paint, coating, and caulking</del> <u>when supplemented with physical manipulation</u> or uncoated surfaces. Surface exams are conducted to detect cracking when <del>acceptable materials are used (e.g., stainless steel, aluminum).</del></p> <p><del>The external surfaces of insulated tanks are section based, inspected. Internal visual and surface (when necessary to detect cracking) examinations are conducted as well as: Program effectiveness is determined by measuring the thickness of the tank bottoms to ensure that significant degradation is not occurring and that the component's intended function is maintained during the period of extended operation</del></p>	<p>Program is implemented and inspections begin 10 years before the period of extended operation. Existing program.</p>	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	



No	No		XL M3	Reactor Head Closure Stud Bolting	This program includes (a) ISI in conformance with the requirements of the ASME Code, Section XI, Subsection IWB, Table IWB-2500-1; and (b) preventive measures to mitigate cracking. The program also relies on recommendations to address reactor head stud bolting degradation as delineated in NUREG-1339 and NRC Regulatory Guide (RG) 1.65.	Existing program	GALL IV / SRP 3.1	
No	No		XL M30	Fuel Oil Chemistry	The program relies on a combination of surveillance and maintenance procedures. Monitoring and controlling fuel oil contamination in accordance with the guidelines of American Society for Testing and Materials (ASTM) Standards D1796, D2276, D2709, and D4027 maintains the fuel oil quality. Exposure to fuel oil contaminants, such as water and microbiological organisms, is minimized by periodic cleaning/drainage of tanks and by verifying the quality of new oil before its introduction into the storage tanks.	Existing program	GALL VII / SRP 3.3	
No	No		XL M31	Reactor Vessel Surveillance	This program, extending the scope of 10 CFR Part 50, Appendix H, "Reactor Vessel Material Surveillance Program Requirements," provides sufficient material data and dosimetry to monitor irradiation embrittlement at the end of the period of extended operation, and to determine the need for operating restrictions on the inlet temperature, neutron spectrum, and neutron flux. If surveillance capsules are not withdrawn during the period of extended operation, operating restrictions are to be established to ensure that the plant is operated under the conditions to which the surveillance capsules were exposed. All capsules in the reactor vessel that are removed and tested must meet the test procedures and reporting requirements of ASTM E 185-82 to the extent practicable for the configuration of the specimens in the capsule. Any changes to the capsule withdrawal schedule, including spare capsules, must be approved by the NRC prior to implementation. Untested capsules placed in storage must be maintained for future insertion.	The surveillance capsule withdrawal schedule revised before the period of extended operation	GALL IV / SRP 3.1	
No	No		XL M32	One-Time Inspection	The program consists of a one-time inspection of selected components to verify the system-wide effectiveness of an AMP that is designed to prevent or minimize aging to the extent that it will not cause the loss of intended function during the period of extended operation. This program provides inspections that verify that unacceptable degradation is not occurring. It also may trigger additional actions that ensure the intended functions of affected components are maintained during the period of extended operation. The elements of the program include (a) determination of the sample size of components to be inspected based on an assessment of materials of fabrication, environment, plausible aging effects, and operating experience; (b) identification of the inspection locations in the system or component based on the potential for the aging effect to occur; (c) determination of the examination technique, including acceptance criteria that would be effective in managing the aging effect for which the component is examined; and (d) an evaluation of the need for follow-up examinations to monitor the progression of aging if age-related degradation is found that could jeopardize an intended function before the end of the period of extended operation. This program cannot be used for structures or components with known age-related degradation mechanisms or when the environment in the period of extended operation is not expected to be equivalent to that in the prior 40 years. Periodic inspections should be proposed in these cases.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL VI / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XL M33	Selective Leaching	The program includes a one-time visual inspection coupled with either hardness measurement or other mechanical examination techniques such as destructive testing, scraping, or chipping of selected components that may be susceptible to selective leaching. This is to determine whether loss of materials is occurring and whether the process will affect the ability of the components to perform their intended function for the period of extended operation.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1 GALL VI / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XL M35	One-Time Inspection of ASME Code Class 1 Small Bore-Piping	This program augments the existing ASME Code, Section XI requirements and is applicable to small-bore ASME Code Class 1 piping and systems with a nominal pipe size diameter less than 4 inches (NPS-4) and greater than or equal to NPS 1. This program provides a one-time volumetric inspection of a sample of this Class 1 piping. The program includes pipes, fittings, branch connections, and all full and partial penetration (socket) welds. The program includes measures to verify that degradation is not occurring, thereby either confirming that there is no need to manage aging-related degradation or validating the effectiveness of any existing program for the period of extended operation. The one-time inspection program for ASME Code Class 1 small-bore piping includes locations that are susceptible to cracking. This program is applicable to systems that have not experienced cracking of ASME Code Class 1 small-bore piping. This program can also be used for systems that experienced cracking but have implemented design changes to effectively mitigate cracking. (Measure of effectiveness includes (1) the one-time inspection sampling is statistically significant; (2) samples will be selected as described in Element 5; and (3) no repeated failures over an extended period of time.) For systems that have experienced cracking and operating experience indicates design changes have not been implemented to effectively mitigate cracking, periodic inspection is proposed, as managed by a plant-specific AMP. Should evidence of cracking be revealed by a one-time inspection, periodic inspection is also proposed, as managed by a plant-specific AMP.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
Yes	No	Table 3.0-1, XL M36	XL M36	External Surfaces Monitoring of Mechanical Components	This program is based on system inspections and walkdowns. The program consists of periodic visual inspections of metallic and polymeric components, such as piping, piping components, ducting, polymeric components, and other components. The program manages aging effects through visual inspection of external surfaces for evidence of loss of material, cracking, and changes in material properties. <u>A sample of outdoor component surfaces that are insulated and a sample of indoor insulated components exposed to condensation (due to the in-scope component being operated below the dew point), are periodically inspected every 10 years during the period of extended operation.</u> When appropriate for the component and material, radiation <u>may be</u> used to augment visual inspection to confirm the absence of elastomer hardening and loss of strength.	<u>Program is implemented 6 months before the period of extended operation and inspections begin during the period of extended operation. Existing program.</u>	GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XL M37	Flux Thimble Tube Inspection	The program inspects for the thinning of flux thimble tube walls, which provides a path for the in-core neutron flux monitoring system detectors and forms part of the reactor coolant system pressure boundary. Flux thimble tubes are subject to loss of material at certain locations in the reactor vessel where flow-induced fretting causes wear at discontinuities in the path from the reactor vessel instrument nozzle to the fuel assembly instrument guide tube. A nondestructive examination methodology, such as eddy current testing, or other applicant-justified and US NRC-accepted inspection methods are used to monitor flux thimble tube wear. This program implements the recommendations of NRC Bulletin 88-09, "Thimble Tube Thinning in Westinghouse Reactors."	Existing Program	GALL IV / SRP 3.1	

Yes	No	Table 3.0-1, XI.M38	XI.M38	Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components	The program consists of inspections of the internal surfaces of metallic piping, piping components, and piping elements, including heat exchanger components, polymeric and elastomeric components, and other components that are exposed to environments of uncontrolled indoor air, outdoor air, air with, bottled water, treated water, and fire water, that are exposed to environments of air—indoor, uncontrolled air—outdoor, condensation—These internal inspections are performed during the periodic system and component surveillances or during the performance of maintenance activities when the surfaces are made accessible for visual inspection. At a minimum, in each 10 year period during the period of extended operation a representative sample of 20 percent of the population (defined as components having the same combination of material, environment, and aging effect) or a maximum of 25 components per population is inspected. Where practical, the inspections are based on the bounding or best preservation model, applicable to aging because of time in service, and severity of operating conditions. Opportunistic inspections continue in each period despite meeting the sampling limit. The program includes visual inspections to ensure that existing environmental conditions are not causing material degradation that could result in a loss of the component's intended function. For certain materials, such as polymers, physical manipulation or pressurization (e.g., hydrotesting), to detect hardening or loss of strength is used to augment the visual examinations conducted under this program. If visual inspection of internal surfaces is not possible, then the applicant needs to provide a plant-specific program.	Program is implemented 6 months before the period of extended operation and inspections begin during the period of extended operation. Existing program.	GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4 GALL VI / SRP 3.6	
No	No		XI.M39	Lubricating Oil Analysis	This program ensures that the oil environment in the mechanical systems is maintained to the required quality. The program ensures that oil systems are maintained free of contaminants (primarily water and particulates), thereby preserving an environment that is not conducive to loss of material or reduction of heat transfer. Testing activities include sampling and analysis of lubricating oil for detrimental contaminants. The presence of water or particulates may also indicate in-leakage and corrosion product buildup.	Existing program	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M4	BWR Vessel ID Attachment Welds	The program includes (a) inspection and flaw evaluation in conformance with the guidelines of staff-approved BWRVIP-49-A to ensure the long-term integrity and safe operation of boiling water reactor (BWR) vessel internal components.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M40	Monitoring of Neutron-Absorbing Materials other than Boraflex	This program relies on periodic inspection, testing, monitoring, and analysis of the critically design to assure that the required 5 percent sub-criticality margin is maintained.	Program should be implemented prior to period of extended operation	GALL VII / SRP 3.3	
Yes	No	Table 3.0-1, XI.M41	XI.M41	Buried and Underground Piping and Tanks	This comprehensive program is designed to manage the aging of the external surfaces of buried and underground piping and tanks. It addresses piping and tanks composed of any material, including metallic, polymeric, concrete, and cementitious materials. The program manages aging through preventive, mitigative, and inspection activities. It manages all applicable aging effects, such as loss of material, cracking, and changes in material properties.	Inspections to be completed before the period of extended operation	GALL V / SRP 3.2 GALL VII / SRP 3.3 GALL VIII / SRP 3.4	
Yes	Yes	Table 3.0-1, XI.M42	XI.M42	Internal Coatings, Linings for In-Scope Piping, Piping Components, Heat Exchangers and Tanks	The program consists of periodic visual inspections of all coatings/linings applied to the internal surfaces of in-scope components exposed to direct cycle cooling water, raw water, treated water, treated bottled water, waste water, lubrication oil, or fuel oil where loss of coating or lining integrity could impact the component's and downstream components' current function, basis intended function(s). For coated/lined surfaces determined to not meet the acceptance criteria, physical testing is performed where statistically possible (i.e., sufficient room to inspect/measure) in conjunction with repair or replacement of the coating/lining. The training and qualification of individuals involved in coating/lining inspections of non-ferrous coatings/linings are conducted in accordance with ASTM International Standards, endorsed in RG 1.64 including guidance from the staff associated with a particular standard. For cementitious coatings, training and qualifications are based on an appropriate combination of education and experience related to inspecting concrete surfaces.	Program is implemented no later than six months before the period of extended operation and inspections begin no later than the last refueling outage before the period of extended operation.	GALL V / SRP 3.2 GALL VI / SRP 3.3 GALL VIII / SRP 3.4	
No	No		XI.M5	BWR Feedwater Nozzle	This program includes (a) enhancing ISI specified in the ASME Code, Section XI, with the recommendation of General Electric (GE) NE-523, AT-1-0594 to perform periodic ultrasonic testing inspection of critical regions of the BWR feedwater nozzle.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M6	BWR Control Rod Drive Return Line Nozzle	The program includes mandatory in-service inspection in accordance with ASME Code Section XI, Subsection IWB, Table IWB 2500-1 and augmented ISI examinations in accordance with the applicant's commitments to Generic Letter 80-095 to implement the recommendations in NUREG-0619.	Program should be implemented prior to period of extended operation	GALL IV / SRP 3.1	
No	No		XI.M7	BWR Stress Corrosion Cracking	The program to manage intergranular stress corrosion cracking (IGSCC) in stainless steel or nickel alloy BWR coolant pressure boundary piping is delineated in NUREG-0313, Rev. 2, and NRC Generic Letter (GL) 88-01 and its Supplement 1. The program includes (a) preventive measures to mitigate IGSCC and (b) inspection and flaw evaluation to monitor IGSCC and its effects.	Existing program	GALL IV / SRP 3.1 GALL V / SRP 3.2 GALL VII / SRP 3.3	
No	No		XI.M8	BWR Penetrations	The program includes inspection and flaw evaluation in conformance with the guidelines of staff-approved boiling water reactor vessel and internals project documents BWRVIP-47-A, BWRVIP-49-A, and BWRVIP-27-A, to ensure the long-term integrity and safe operation of BWR vessel internal components.	Existing program	GALL IV / SRP 3.1	
No	No		XI.M9	BWR Vessel Internals	The program includes inspection and flaw evaluation in conformance with the guidelines of applicable and staff-approved BWRVIP documents, and to ensure the long-term integrity and safe operation of BWR vessel internal components. This program also consists of (1) determination of the susceptibility of cast austenitic stainless steel components, (2) accounting for the synergistic effect of thermal aging and neutron irradiation, and (3) implementing a supplemental examination program, as necessary. This program also addresses aging degradation of X-750 alloy and precipitation-hardened (PH) martensitic stainless steel (e.g., 15-5 and 17-4 PH steel) materials and martensitic stainless steel (e.g., 403, 410, 431 steel) that are used in BWR vessel internal components.	Existing program	GALL IV / SRP 3.1	
No	No		XI.S1	ASME Section XI, Subsection IWE Inservice Inspection (IWE)	The ASME Section XI, Subsection IWE program consists of periodic visual, surface, and volumetric inspection of pressure-retaining components of steel and concrete containment for signs of degradation, assessment of damage, and corrective actions. The program also includes aging management for the potential loss of material due to corrosion in the inaccessible areas of the BWR Mark I steel containment, and surface examination for the detection of cracking of structural bolting. This program is in accordance with ASME Section XI, Subsection IWE, 2004 edition.	Existing program	GALL II / SRP 3.5	

[illegible]

[illegible]

[illegible]

Changes Proposed?	New Item?	Location	Identifier	Further Evaluation Section	Title	Comments
No	No		3.1.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.1.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
No	No		3.1.2.2.1, Cumulative Fatigue Damage	3.1.2.2.1	Cumulative Fatigue Damage	
Yes	Yes	Section 3.1.2.2.10	3.1.2.2.10, Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void Swelling; Loss of Preload due to Cracking due to Primary Water Stress Corrosion Cracking	3.1.2.2.10	Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void Swelling; Loss of Preload due to Cracking due to Primary Water Stress Corrosion Cracking	
No	No		3.1.2.2.11.1, Cracking due to Primary Water Stress Corrosion Cracking	3.1.2.2.11.1	Cracking due to Primary Water Stress Corrosion Cracking	
No	No		3.1.2.2.11.2, Cracking due to Primary Water Stress Corrosion Cracking	3.1.2.2.11.2	Cracking due to Primary Water Stress Corrosion Cracking	
Yes	Yes	Section 3.1.2.2.12	3.1.2.2.12, Cracking due to Fatigue	3.1.2.2.12	Cracking due to Fatigue	
Yes	Yes	Section 3.1.2.2.13	3.1.2.2.13, Cracking due to Stress Corrosion Cracking and Fatigue	3.1.2.2.13	Cracking due to Stress Corrosion Cracking and Fatigue	
Yes	Yes	Section 3.1.2.2.14	3.1.2.2.14, Loss of Material due to Wear	3.1.2.2.14	Loss of Material due to Wear	
Yes	Yes	Section 3.1.2.2.16	3.1.2.2.16, Ongoing Review of Operating Experience	3.1.2.2.16	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.1.2.2.9	3.1.2.2.9, Cracking due to Stress Corrosion Cracking and Irradiation-Assisted Stress Corrosion Cracking	3.1.2.2.9	Cracking due to Stress Corrosion Cracking and Irradiation-Assisted Stress Corrosion Cracking	
No	No		3.1.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.1.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.1.3.2.10	3.1.3.2.10, Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void Swelling; Loss of Preload due to Cracking due to Fatigue	3.1.3.2.10	Loss of Fracture Toughness due to Neutron Irradiation Embrittlement; Change in Dimension due to Void Swelling; Loss of Preload due to Cracking due to Fatigue	
Yes	Yes	Section 3.1.3.2.12	3.1.3.2.12, Cracking due to Fatigue	3.1.3.2.12	Cracking due to Fatigue	
Yes	Yes	Section 3.1.3.2.13	3.1.3.2.13, Cracking due to Stress Corrosion Cracking and Fatigue	3.1.3.2.13	Cracking due to Stress Corrosion Cracking and Fatigue	
Yes	Yes	Section 3.1.3.2.14	3.1.3.2.14, Loss of Material due to Wear	3.1.3.2.14	Loss of Material due to Wear	
Yes	Yes	Section 3.1.3.2.16	3.1.3.2.16, Ongoing Review of Operating Experience	3.1.3.2.16	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.1.3.2.9	3.1.3.2.9, Cracking due to Stress Corrosion Cracking and Irradiation-Assisted Stress Corrosion Cracking	3.1.3.2.9	Cracking due to Stress Corrosion Cracking and Irradiation-Assisted Stress Corrosion Cracking	
No	No		3.2.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.2.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.2.2.2.8	3.2.2.2.8, Ongoing Review of Operating Experience	3.2.2.2.8	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.2.2.2.9	3.2.2.2.9, Loss of Material due to Recurring Internal Corrosion	3.2.2.2.9	Loss of Material due to Recurring Internal Corrosion	
No	No		3.2.3.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.2.3.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.2.3.2.8	3.2.3.2.8, Ongoing Review of Operating Experience	3.2.3.2.8	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.2.3.2.9	3.2.3.2.9, Loss of Material due to Recurring Internal Corrosion	3.2.3.2.9	Loss of Material due to Recurring Internal Corrosion	
No	No		3.3.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.3.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.3.2.2.4	3.3.2.2.4, Loss of Material due to Cladding Breach	3.3.2.2.4	Loss of Material due to Cladding Breach	
Yes	Yes	Section 3.3.2.2.7	3.3.2.2.7, Ongoing Review of Operating Experience	3.3.2.2.7	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.3.2.2.8	3.3.2.2.8, Loss of Material due to Recurring Internal Corrosion	3.3.2.2.8	Loss of Material due to Recurring Internal Corrosion	
No	No		3.3.3.2, AMR Results Report for Which Further Evaluation is Recommended by the GALL Report	3.3.3.2	AMR Results Report for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.3.3.2.7	3.3.3.2.7, Ongoing Review of Operating Experience	3.3.3.2.7	Ongoing Review of Operating Experience	
Yes	Yes	Section 3.3.3.2.8	3.3.3.2.8, Loss of Material due to Recurring Internal Corrosion	3.3.3.2.8	Loss of Material due to Recurring Internal Corrosion	
No	No		3.4.2.2, AMR Results for Which Further Evaluation is Recommended by the GALL Report	3.4.2.2	AMR Results for Which Further Evaluation is Recommended by the GALL Report	
Yes	Yes	Section 3.4.2.2.5	3.4.2.2.5, Ongoing Review of Operating Experience	3.4.2.2.5	Ongoing Review of Operating Experience	

Basis Document:

MARKUP/SRP-LR  
MARKUP.docx



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

No						
No						
No						
No						