

Attachment 2b: Storage and Elevation Results (CalSim 3)

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The following results of the CalSim 3 model are included for reservoir storage and elevation conditions for the following scenarios:

- Baseline Conditions (082624)
- Proposed Project plus Cumulative Projects (091124)

Title	Model Parameter	Table Numbers	Figure Numbers
San Luis Reservoir SWP Storage	S_SLUIS_SWP	4G-2-1-1a to 4G-2-1-1c	4G-2-1a to 4G-2-1l
San Luis Reservoir Storage	Post-Processed	4G-2-2-1a to 4G-2-2-1c	4G-2-2a to 4G-2-2l
San Luis Reservoir Elevation	Post-Processed	4G-2-3-1a to 4G-2-3-1c	4G-2-3a to 4G-2-3l

Report formats:

- Monthly tables comparing two scenarios (exceedance values, long-term average, and average by water year type).
- Monthly exceedance charts (all months) including all scenarios.

Table 4G-2-1-1a. San Luis SWP Storage, Baseline Conditions 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	766	870	980	1,010	1,067	1,067	1,067	1,065	981	914	840	762
20% Exceedance	618	732	769	826	951	1,067	970	915	740	735	685	631
30% Exceedance	525	603	677	747	888	989	925	776	610	599	578	537
40% Exceedance	445	488	610	679	783	859	784	671	526	498	496	481
50% Exceedance	383	427	540	612	709	726	683	553	434	474	435	384
60% Exceedance	264	340	459	549	625	682	599	497	376	392	354	272
70% Exceedance	217	275	347	480	587	637	567	406	306	327	294	218
80% Exceedance	151	174	305	391	466	537	456	373	257	298	240	171
90% Exceedance	49	78	99	223	320	410	375	292	138	254	182	111
Full Simulation Period Average ^a	394	454	531	613	709	762	704	611	491	507	466	405
Wet Water Years (32%)	431	527	605	711	842	904	893	817	690	708	703	646
Above Normal Water Years (9%)	465	564	689	769	866	906	792	653	472	529	571	462
Below Normal Water Years (20%)	454	513	575	633	704	758	634	483	316	393	410	366
Dry Water Years (21%)	360	400	475	536	584	643	569	465	371	387	227	146
Critical Water Years (18%)	265	267	334	427	544	583	558	535	479	408	331	293

Table 4G-2-1-1b. San Luis SWP Storage, Proposed Project plus Cumulative 091124, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	882	948	1,067	1,066	1,067	1,067	1,067	1,067	964	919	870	875
20% Exceedance	700	792	828	888	1,007	1,067	1,045	977	754	745	732	705
30% Exceedance	564	691	733	754	904	1,003	923	839	650	647	614	609
40% Exceedance	493	567	664	702	785	849	784	718	556	571	554	506
50% Exceedance	435	455	565	639	705	736	678	597	469	500	492	435
60% Exceedance	349	394	494	552	617	659	583	528	406	414	414	364
70% Exceedance	216	281	392	506	566	593	537	459	332	374	317	250
80% Exceedance	163	157	268	386	446	495	438	378	291	309	247	166
90% Exceedance	69	90	120	220	312	367	311	271	114	230	178	107
Full Simulation Period Average ^a	440	495	564	628	708	746	698	645	512	529	495	454
Wet Water Years (32%)	479	568	633	724	838	895	896	866	712	721	730	732
Above Normal Water Years (9%)	499	602	721	791	877	888	787	701	493	552	601	544
Below Normal Water Years (20%)	500	551	614	655	709	734	640	560	380	467	482	417
Dry Water Years (21%)	413	453	516	551	586	620	537	453	359	382	240	161
Critical Water Years (18%)	305	298	364	436	535	572	553	544	492	416	335	298

Table 4G-2-1-1c. San Luis SWP Storage, Proposed Project plus Cumulative 091124 minus Baseline Conditions 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	115	78	87	57	0	0	0	2	-18	5	30	114
20% Exceedance	82	59	60	62	56	0	75	62	14	9	47	74
30% Exceedance	39	88	55	7	17	14	-1	62	40	48	36	71
40% Exceedance	48	79	54	23	1	-10	0	47	30	73	58	26
50% Exceedance	52	28	24	27	-4	10	-5	44	34	26	57	51
60% Exceedance	85	54	35	3	-8	-23	-16	31	31	22	60	92
70% Exceedance	-1	6	45	26	-20	-44	-30	53	26	47	23	31
80% Exceedance	12	-17	-37	-5	-20	-42	-18	5	34	11	7	-5
90% Exceedance	19	13	21	-3	-8	-42	-65	-20	-24	-24	-4	-4
Full Simulation Period Average ^a	46	41	33	16	0	-16	-6	35	21	21	29	49
Wet Water Years (32%)	48	41	28	13	-3	-9	4	49	21	13	27	87
Above Normal Water Years (9%)	34	38	32	22	11	-18	-5	48	21	23	30	82
Below Normal Water Years (20%)	46	38	39	23	5	-24	6	77	64	74	72	51
Dry Water Years (21%)	53	53	41	15	1	-23	-31	-12	-12	-4	13	15
Critical Water Years (18%)	40	31	29	9	-9	-11	-6	10	12	8	4	6

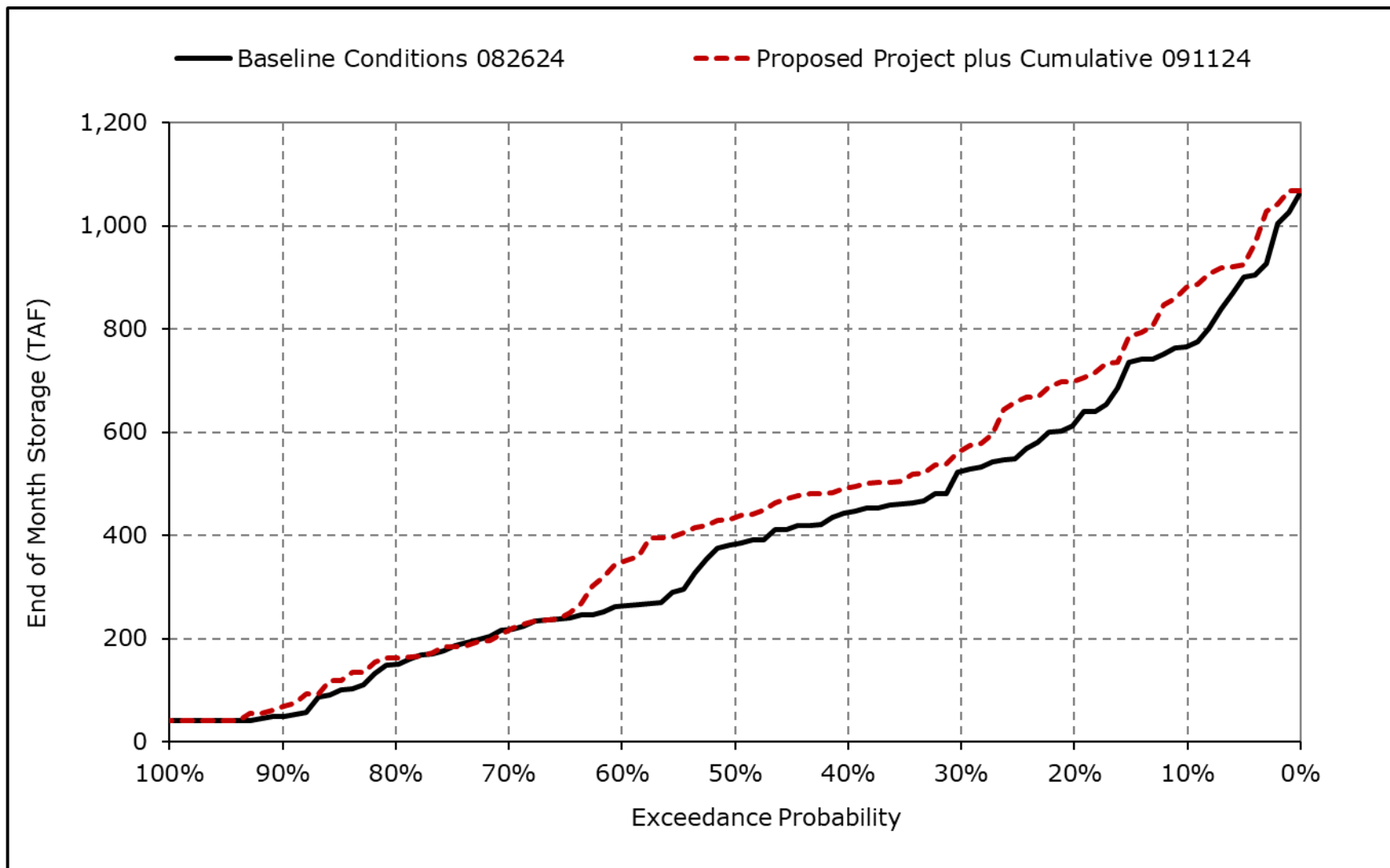
^a Based on the 100-year simulation period.

* All scenarios are simulated at current climate condition and 0 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

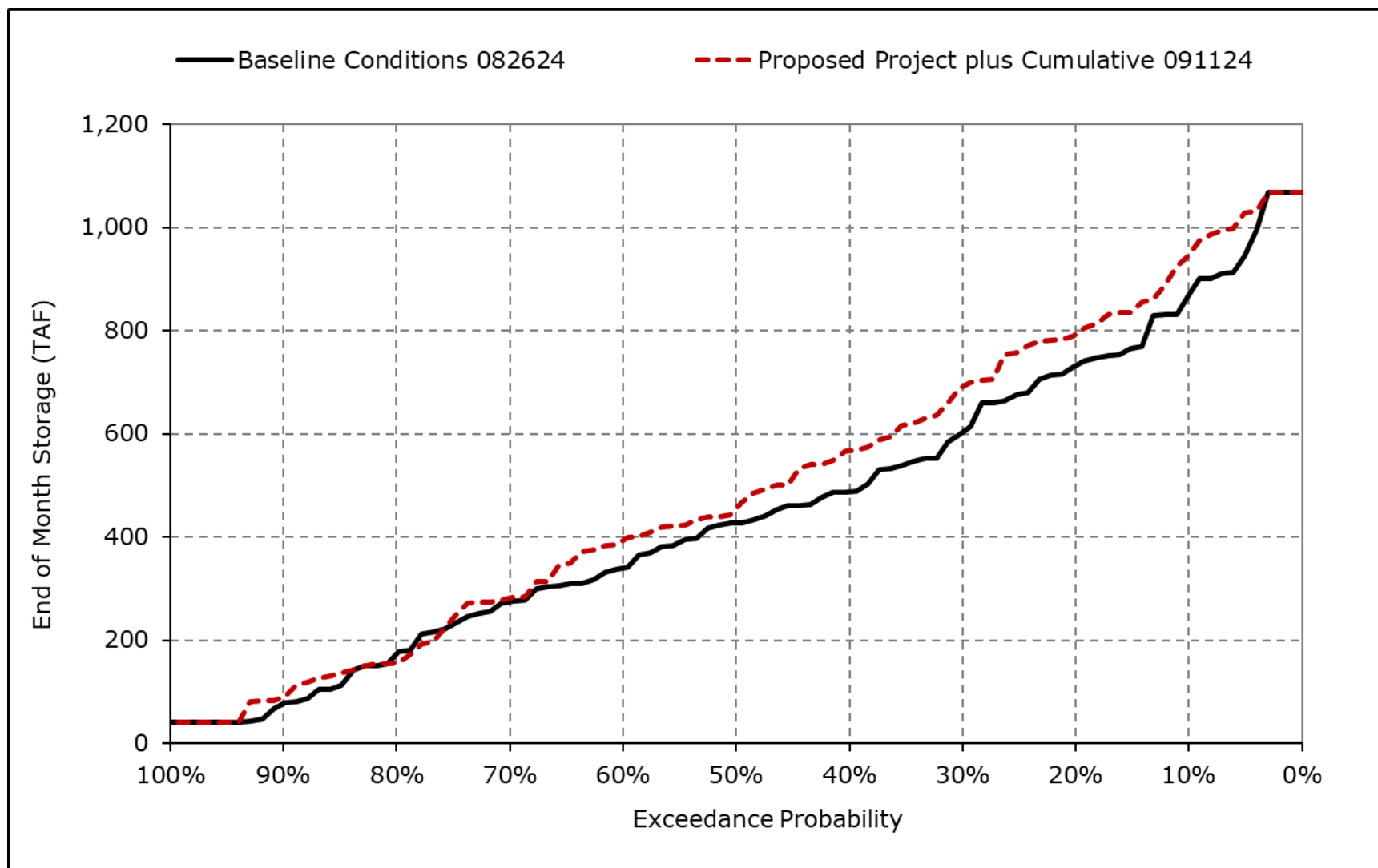
* Water Year Types results are displayed with water year - year type sorting.

Figure 4G-2-1a. San Luis SWP Storage, October



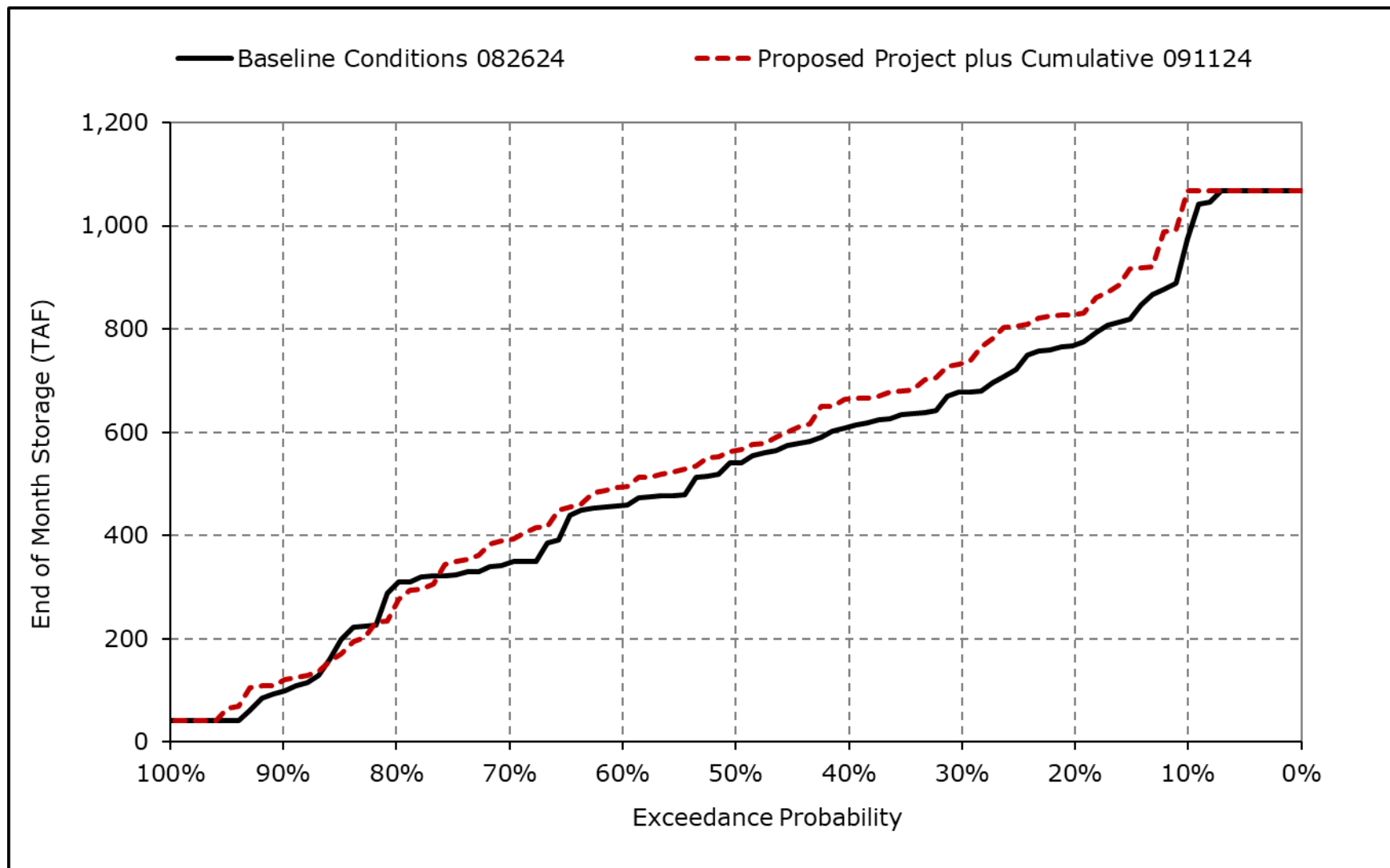
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1b. San Luis SWP Storage, November



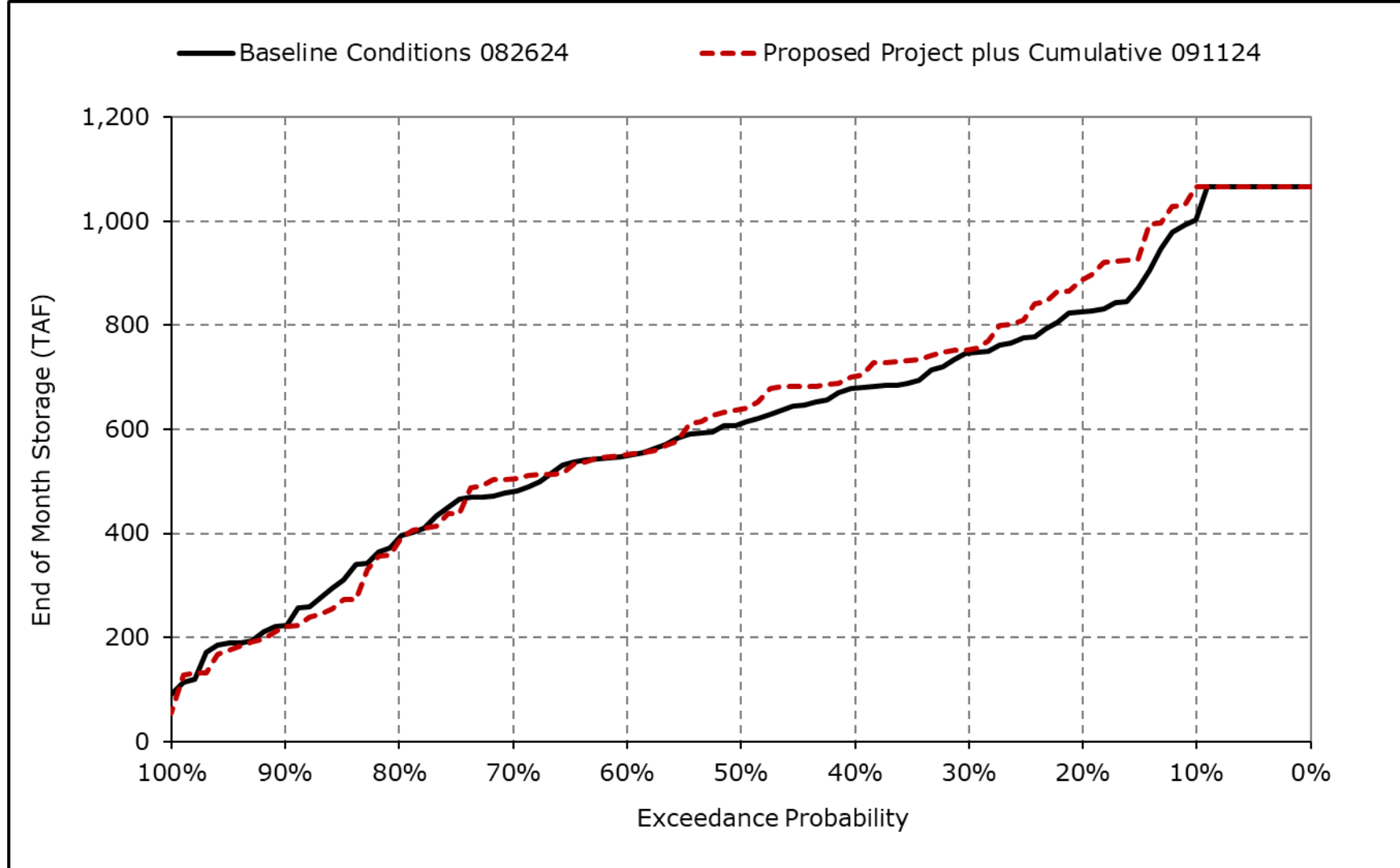
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1c. San Luis SWP Storage, December



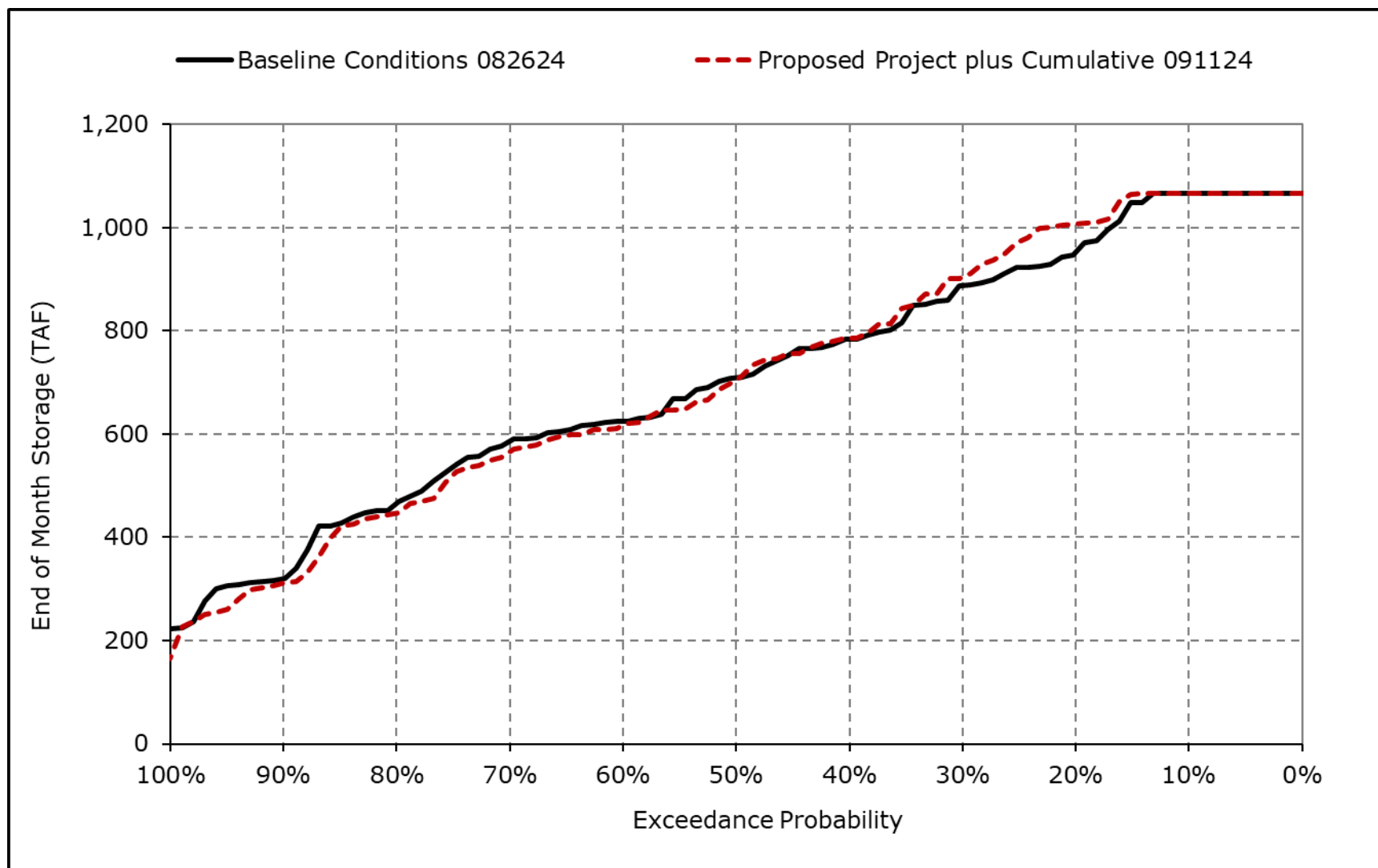
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1d. San Luis SWP Storage, January



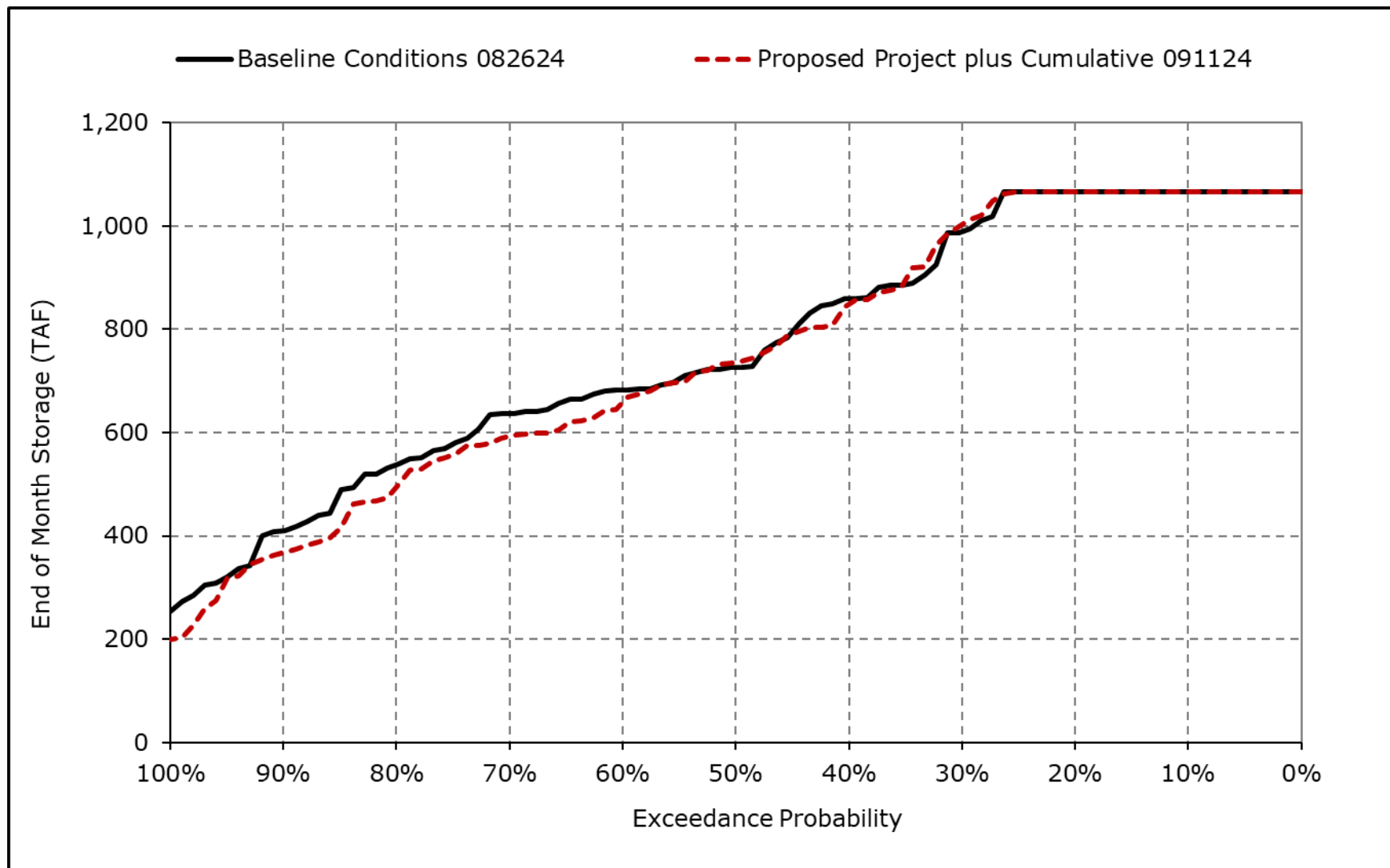
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1e. San Luis SWP Storage, February



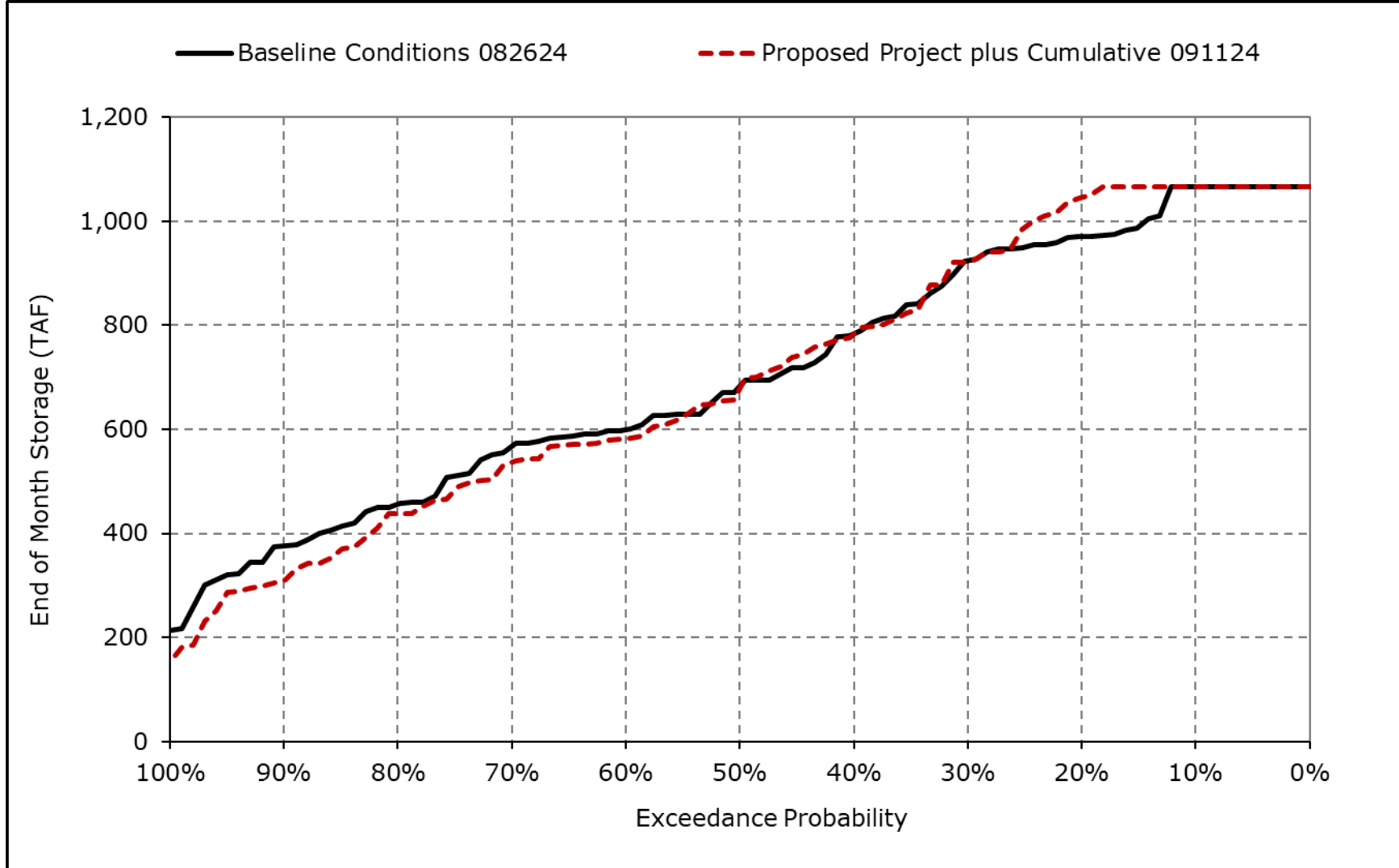
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1f. San Luis SWP Storage, March



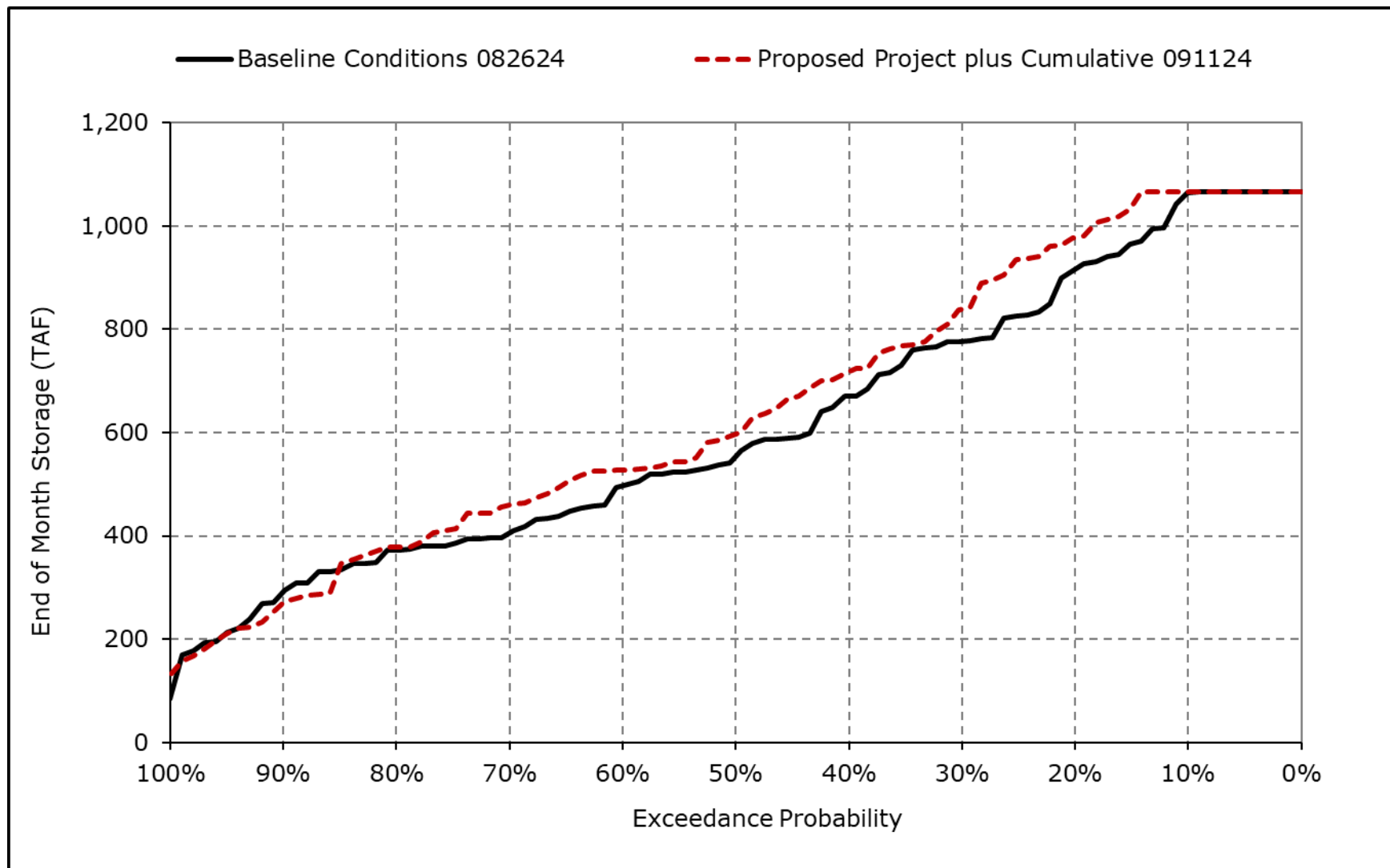
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1g. San Luis SWP Storage, April



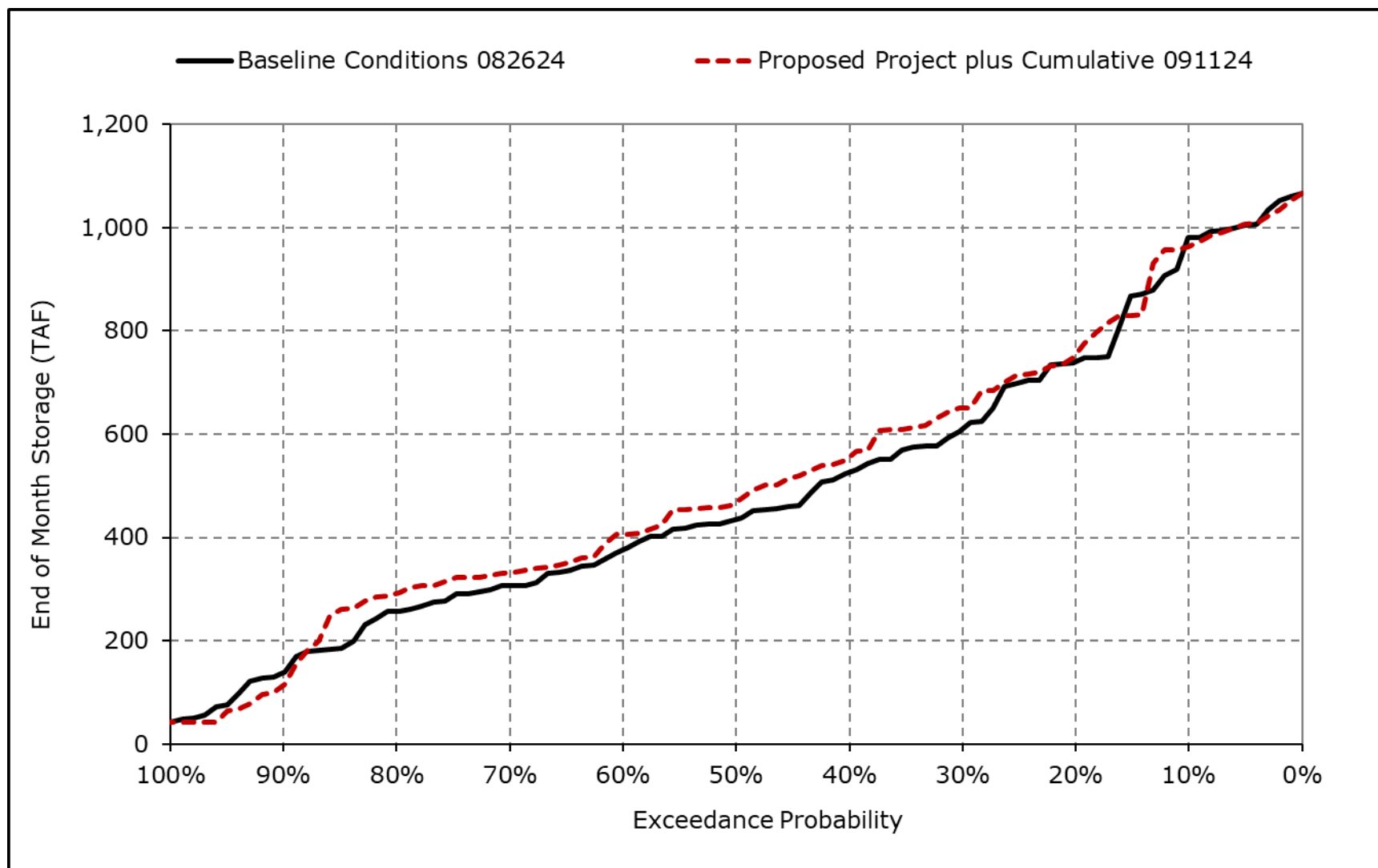
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1h. San Luis SWP Storage, May



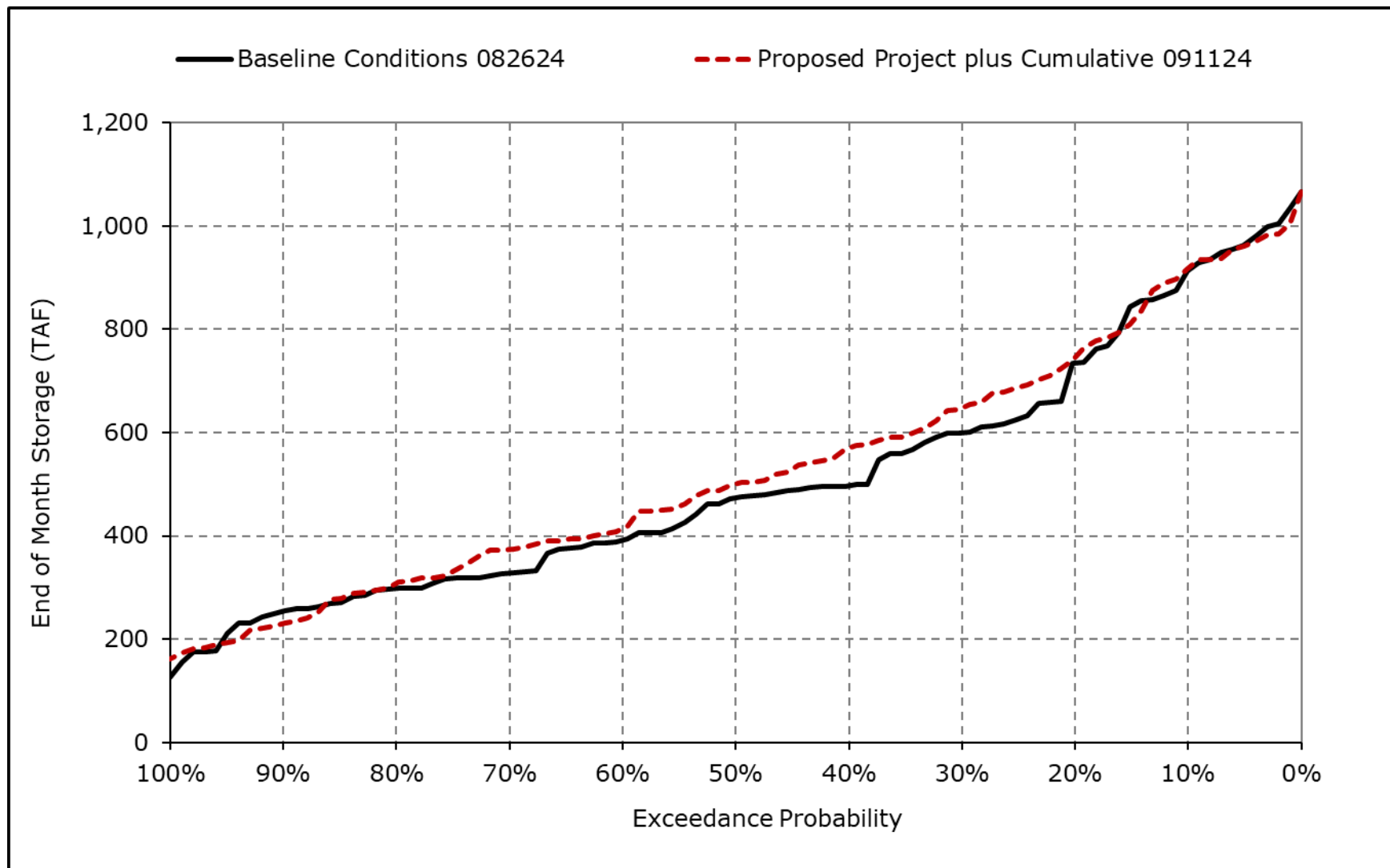
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1i. San Luis SWP Storage, June



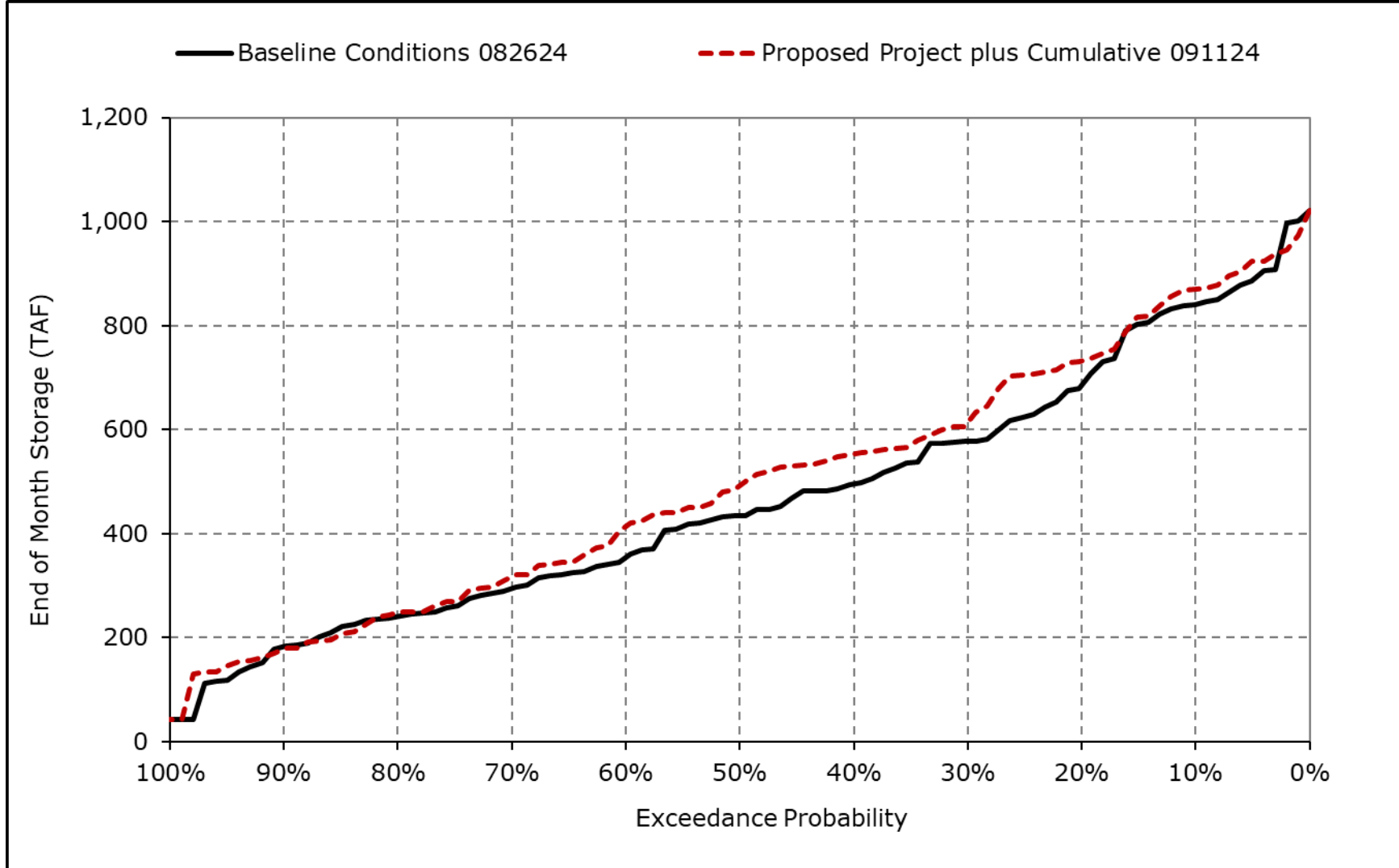
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1j. San Luis SWP Storage, July



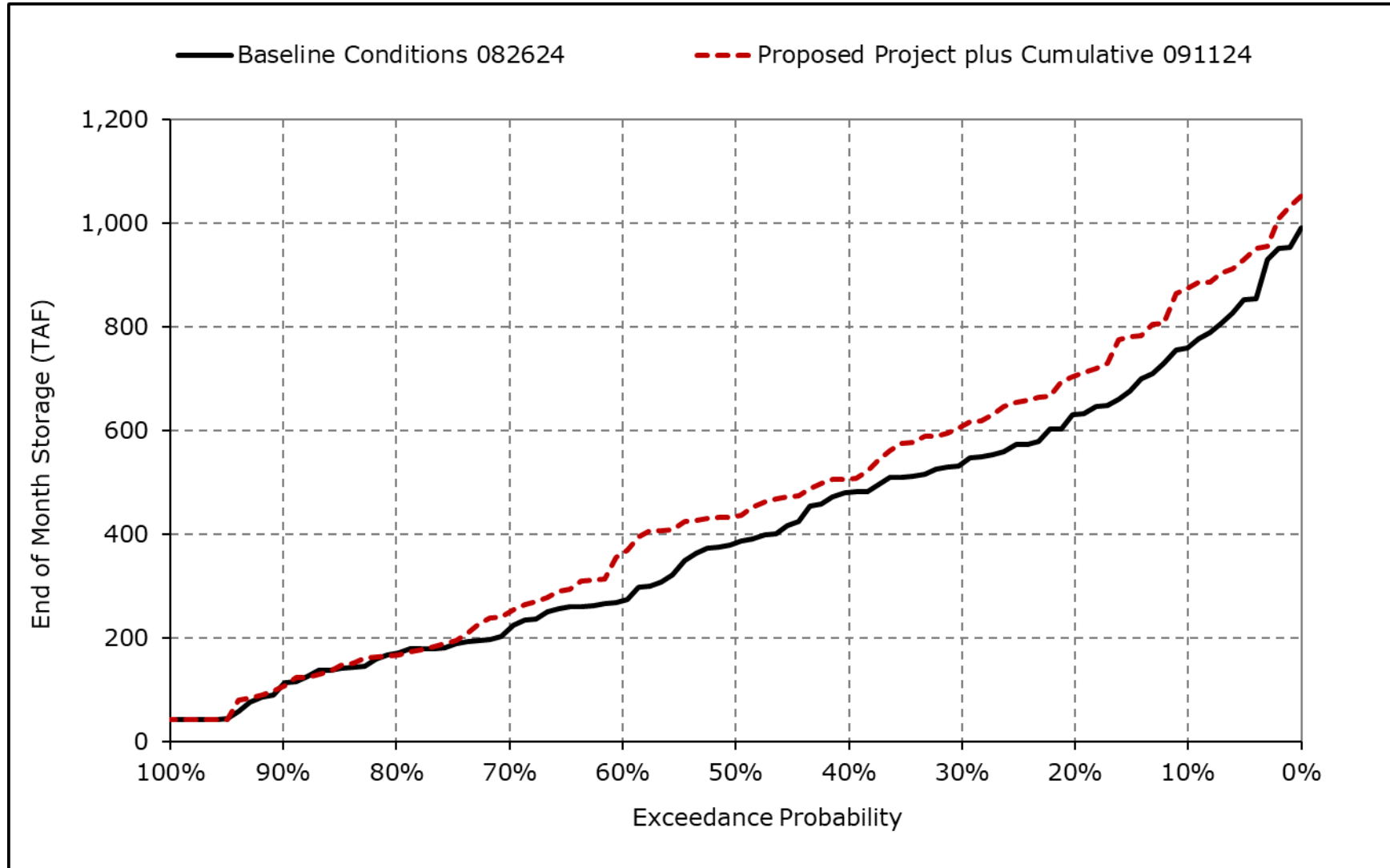
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1k. San Luis SWP Storage, August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-1I. San Luis SWP Storage, September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 4G-2-2-1a. San Luis Storage (CVP and SWP), Baseline Conditions 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,397	1,595	1,783	1,830	1,974	2,039	2,039	1,937	1,828	1,528	1,366	1,387
20% Exceedance	990	1,198	1,414	1,583	1,860	2,036	1,854	1,811	1,403	1,106	924	859
30% Exceedance	725	999	1,262	1,440	1,657	1,864	1,732	1,481	1,069	848	669	674
40% Exceedance	635	837	1,090	1,306	1,477	1,613	1,432	1,169	895	730	587	570
50% Exceedance	512	703	980	1,178	1,359	1,485	1,267	1,040	806	635	521	512
60% Exceedance	454	577	842	1,083	1,269	1,385	1,209	973	695	568	443	416
70% Exceedance	349	516	707	962	1,211	1,310	1,107	847	569	502	380	358
80% Exceedance	305	444	624	863	1,146	1,199	1,021	745	518	442	330	303
90% Exceedance	221	311	484	626	854	988	851	665	402	386	259	227
Full Simulation Period Average ^a	648	827	1,032	1,215	1,412	1,526	1,387	1,189	928	778	633	613
Wet Water Years (32%)	698	933	1,185	1,446	1,701	1,824	1,789	1,643	1,365	1,159	1,027	998
Above Normal Water Years (9%)	676	903	1,196	1,408	1,636	1,749	1,582	1,349	978	778	683	566
Below Normal Water Years (20%)	763	961	1,117	1,259	1,436	1,547	1,272	956	634	566	509	533
Dry Water Years (21%)	630	780	962	1,092	1,209	1,328	1,121	869	649	556	315	302
Critical Water Years (18%)	441	507	664	805	998	1,089	1,013	932	780	594	417	404

Table 4G-2-2-1b. San Luis Storage (CVP and SWP), Proposed Project plus Cumulative 091124, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,463	1,689	1,874	1,905	2,015	2,039	2,039	1,986	1,836	1,510	1,406	1,476
20% Exceedance	1,024	1,227	1,492	1,619	1,857	2,027	1,959	1,879	1,417	1,119	894	932
30% Exceedance	835	1,095	1,305	1,459	1,727	1,835	1,777	1,602	1,200	934	798	760
40% Exceedance	687	918	1,124	1,332	1,524	1,652	1,553	1,452	1,058	854	674	652
50% Exceedance	610	803	1,035	1,225	1,415	1,489	1,364	1,261	950	722	581	561
60% Exceedance	492	662	946	1,159	1,336	1,391	1,289	1,126	858	658	492	496
70% Exceedance	391	573	737	1,016	1,188	1,277	1,155	1,058	705	569	422	391
80% Exceedance	338	459	638	840	1,082	1,130	1,017	876	623	508	348	336
90% Exceedance	281	336	548	686	865	952	881	799	471	424	269	251
Full Simulation Period Average ^a	707	888	1,083	1,247	1,428	1,515	1,439	1,330	1,022	839	678	672
Wet Water Years (32%)	756	988	1,227	1,471	1,708	1,820	1,803	1,700	1,376	1,164	1,046	1,074
Above Normal Water Years (9%)	704	948	1,238	1,432	1,639	1,696	1,571	1,401	979	794	731	649
Below Normal Water Years (20%)	829	1,024	1,180	1,300	1,467	1,519	1,394	1,247	865	737	615	608
Dry Water Years (21%)	685	846	1,012	1,120	1,215	1,299	1,160	1,025	754	610	339	321
Critical Water Years (18%)	513	580	723	842	1,031	1,130	1,101	1,084	900	662	460	451

Table 4G-2-2-1c. San Luis Storage (CVP and SWP), Proposed Project plus Cumulative 091124 minus Baseline Conditions 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	66	94	92	75	41	0	0	48	8	-18	40	89
20% Exceedance	35	28	78	36	-3	-9	105	68	15	13	-30	73
30% Exceedance	110	96	43	18	70	-29	45	121	131	86	128	86
40% Exceedance	52	80	34	26	47	40	121	283	163	124	87	82
50% Exceedance	97	101	55	47	56	4	96	220	144	86	60	49
60% Exceedance	38	85	105	76	68	6	80	153	164	91	49	80
70% Exceedance	42	57	30	54	-23	-33	47	211	136	67	42	33
80% Exceedance	33	15	14	-23	-65	-69	-3	131	105	66	18	33
90% Exceedance	60	25	64	59	11	-36	30	133	70	37	10	24
Full Simulation Period Average ^a	59	61	51	31	16	-10	52	141	93	61	44	59
Wet Water Years (32%)	58	55	43	25	8	-4	14	57	11	5	20	77
Above Normal Water Years (9%)	29	45	42	24	3	-53	-11	52	1	17	48	83
Below Normal Water Years (20%)	66	63	63	41	31	-28	122	291	231	170	106	74
Dry Water Years (21%)	55	65	50	29	6	-29	40	156	105	54	24	19
Critical Water Years (18%)	73	73	59	38	34	41	88	152	120	69	43	47

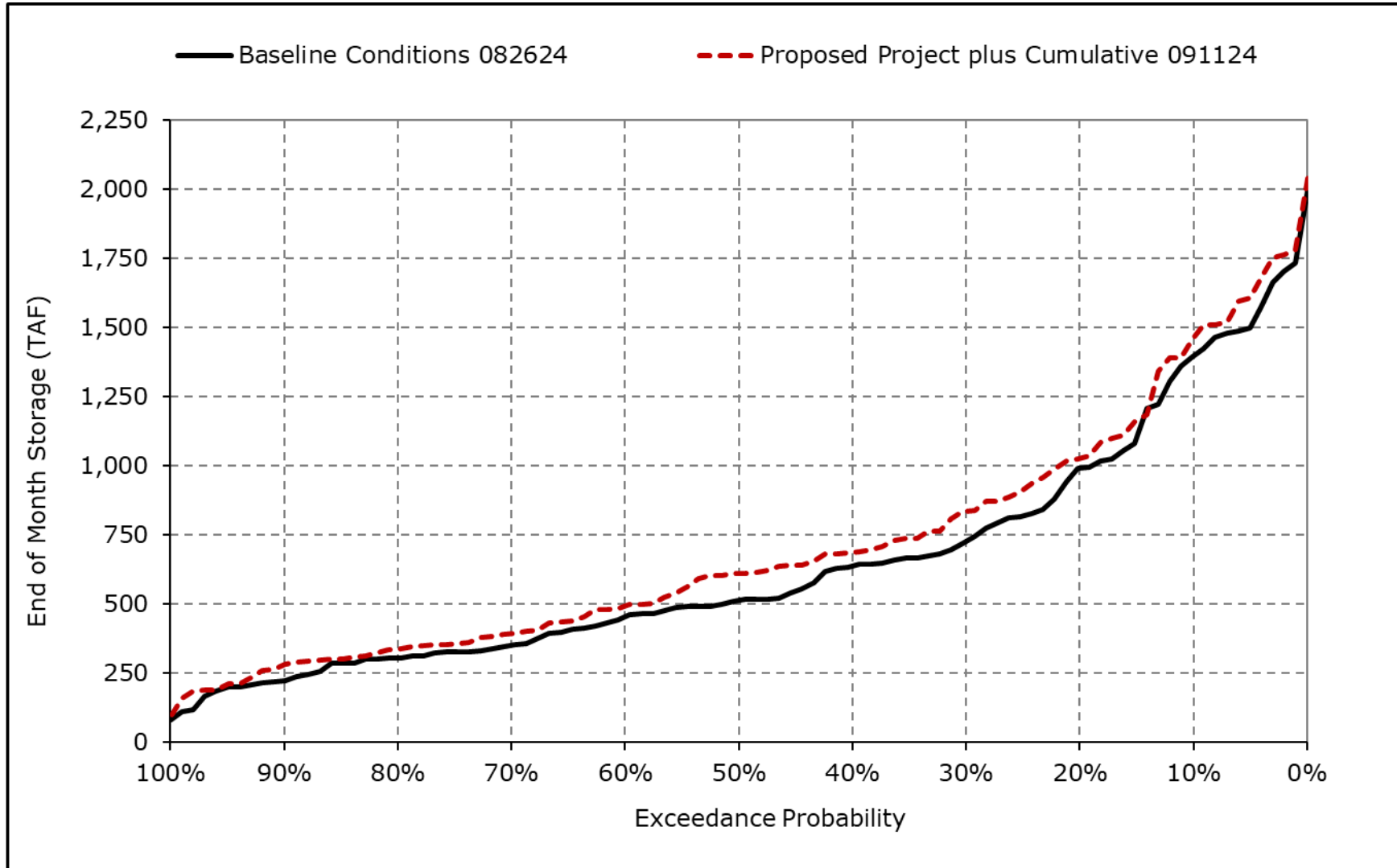
^a Based on the 100-year simulation period.

* All scenarios are simulated at current climate condition and 0 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

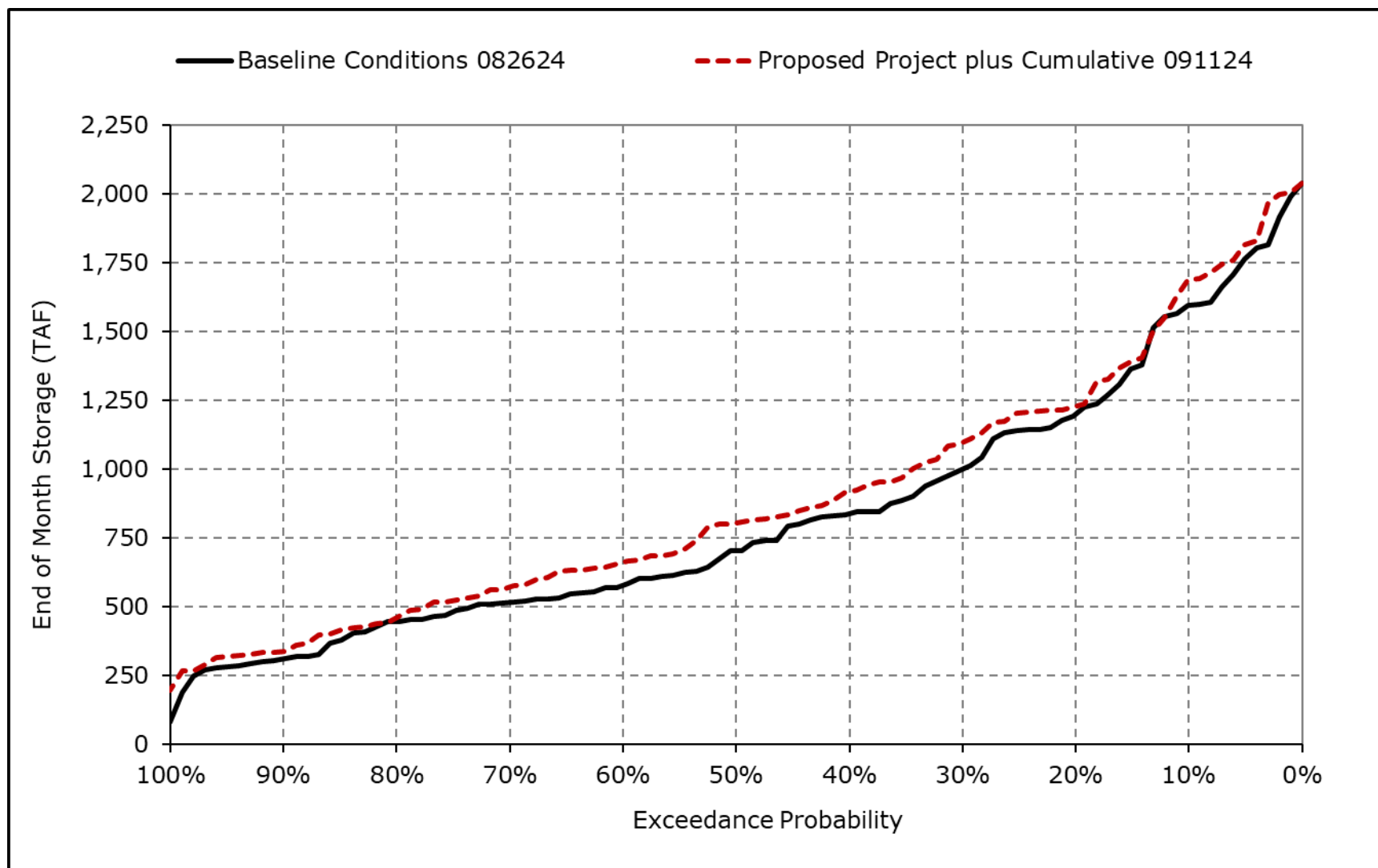
* Water Year Types results are displayed with water year - year type sorting.

Figure 4G-2-2a. San Luis Storage (CVP and SWP), October



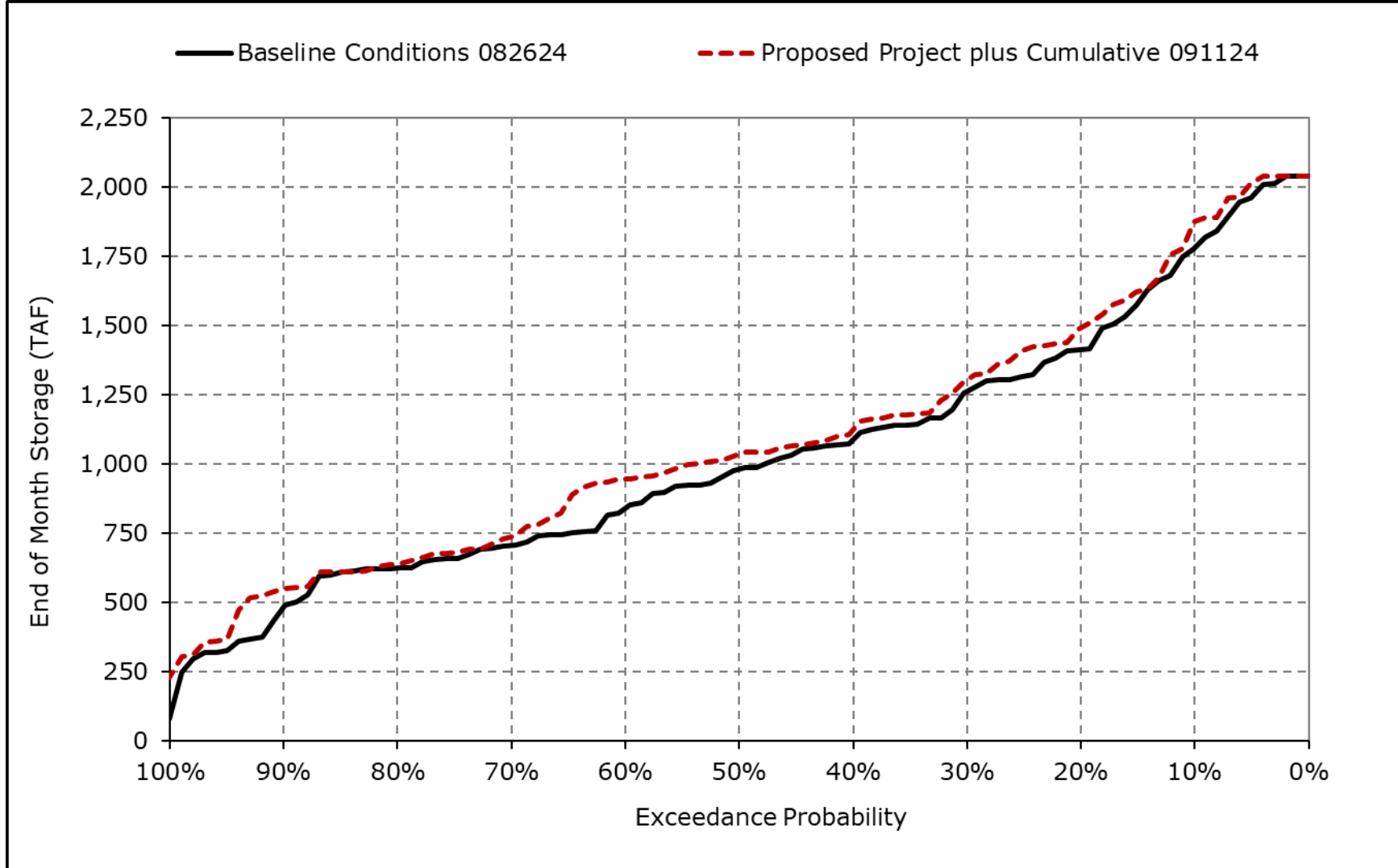
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2b. San Luis Storage (CVP and SWP), November



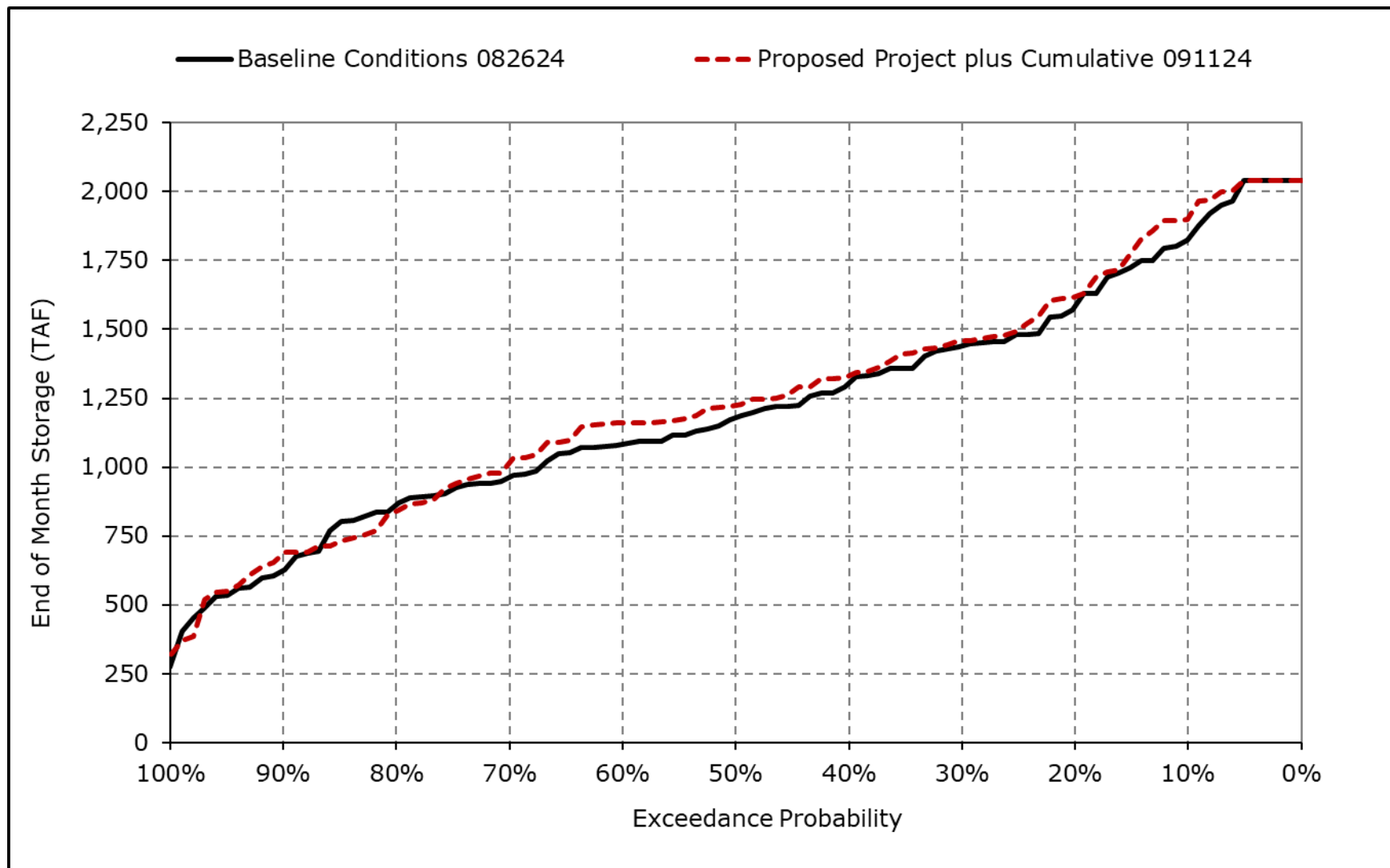
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2c. San Luis Storage (CVP and SWP), December



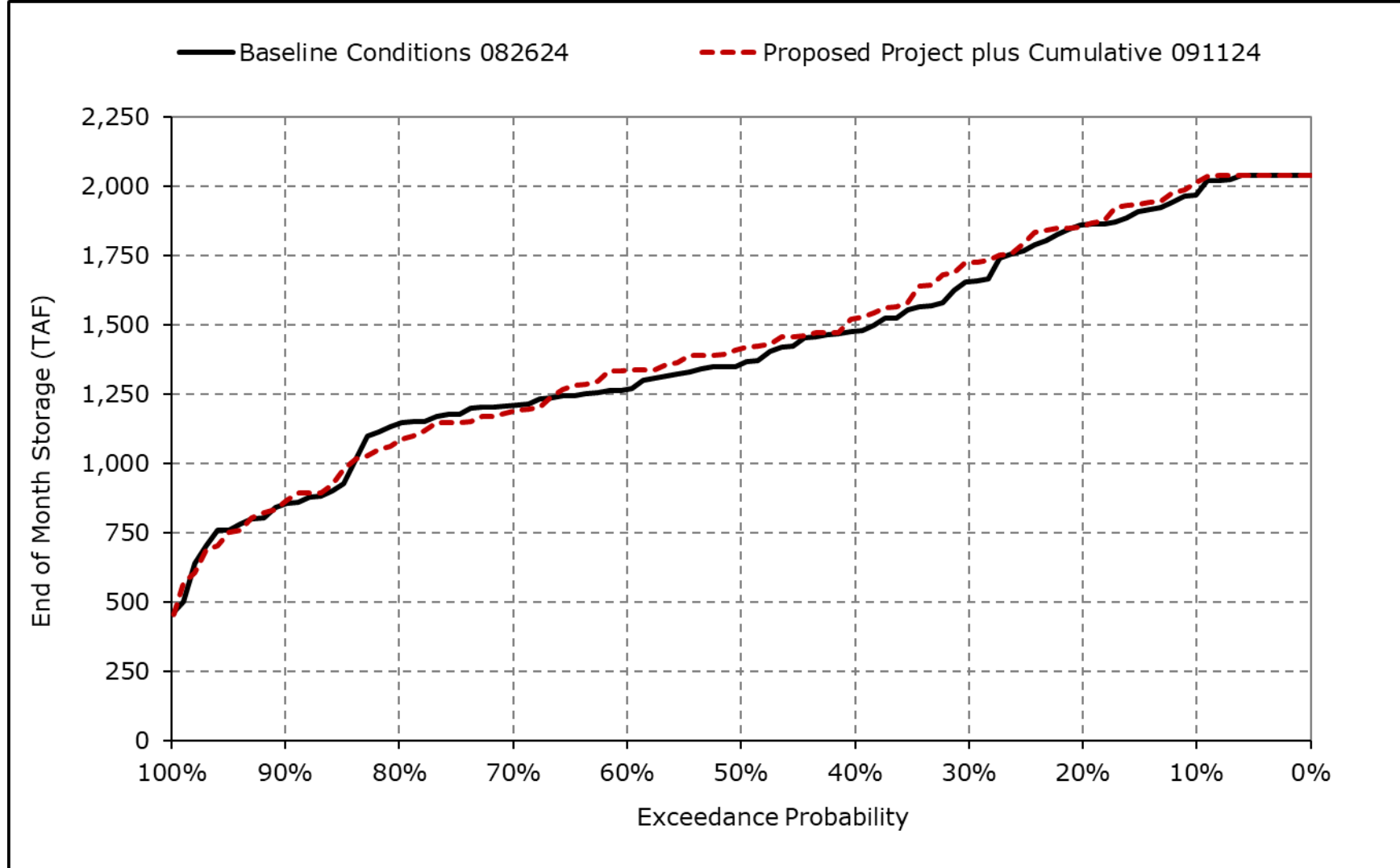
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2d. San Luis Storage (CVP and SWP), January



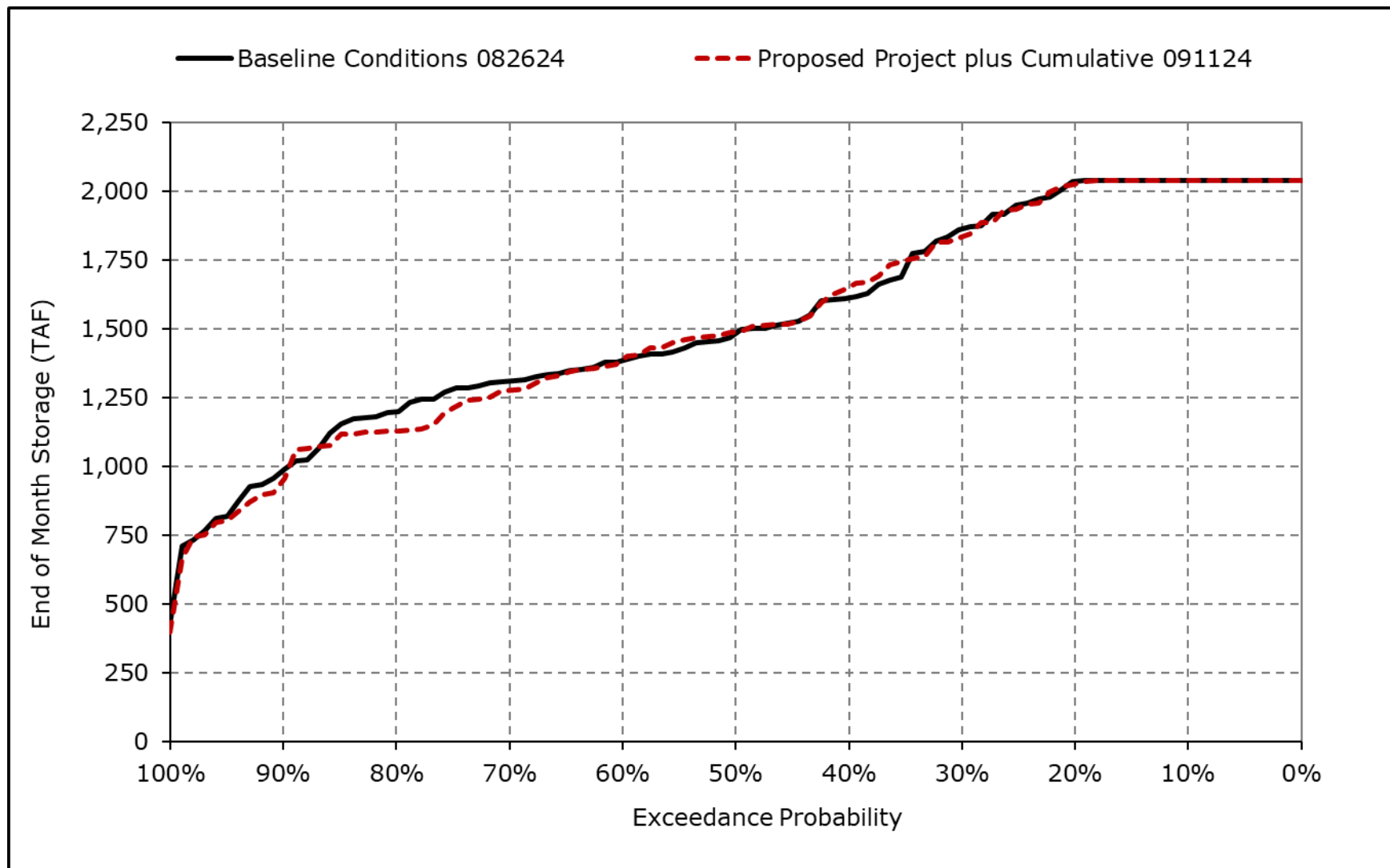
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2e. San Luis Storage (CVP and SWP), February



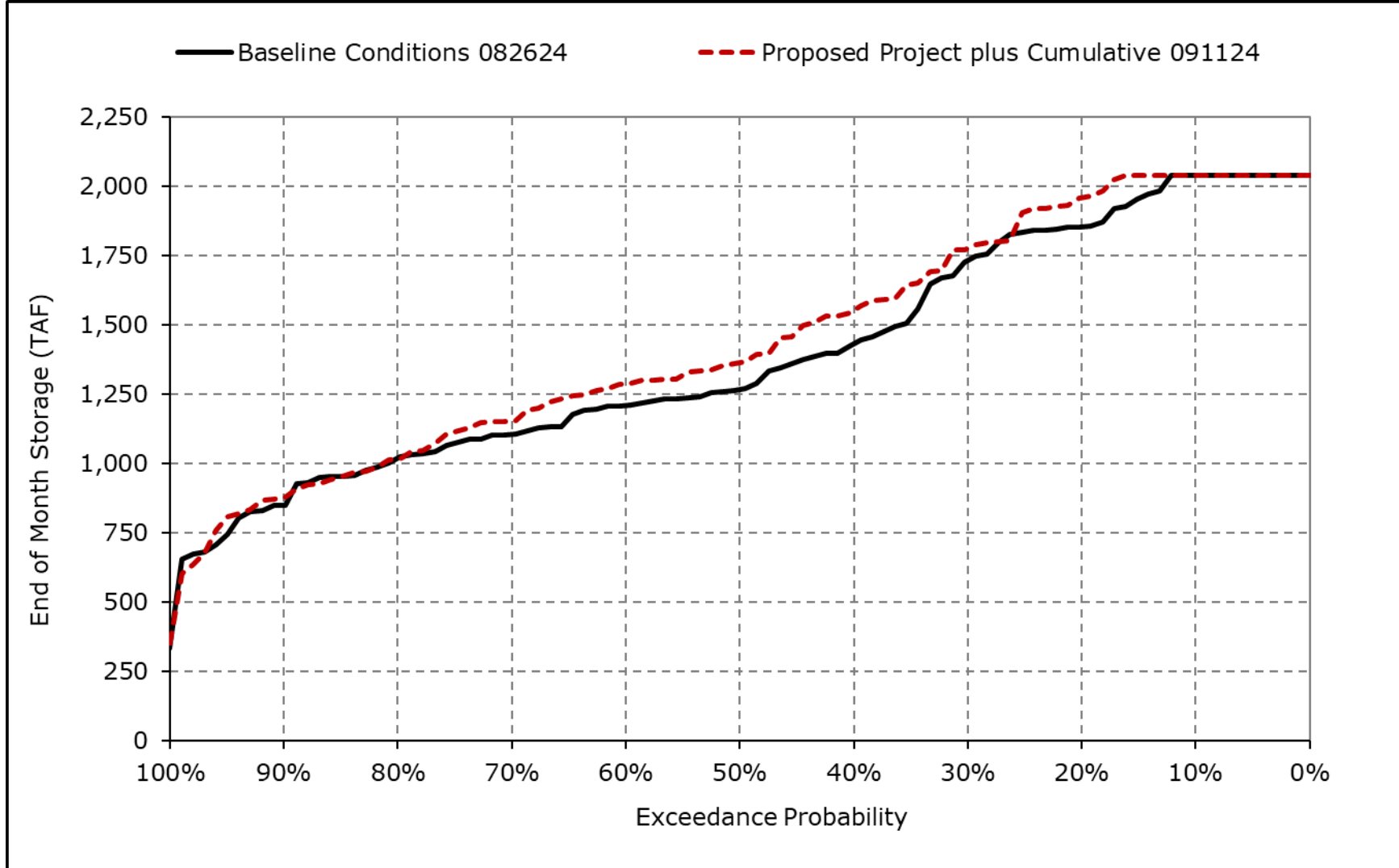
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2f. San Luis Storage (CVP and SWP), March



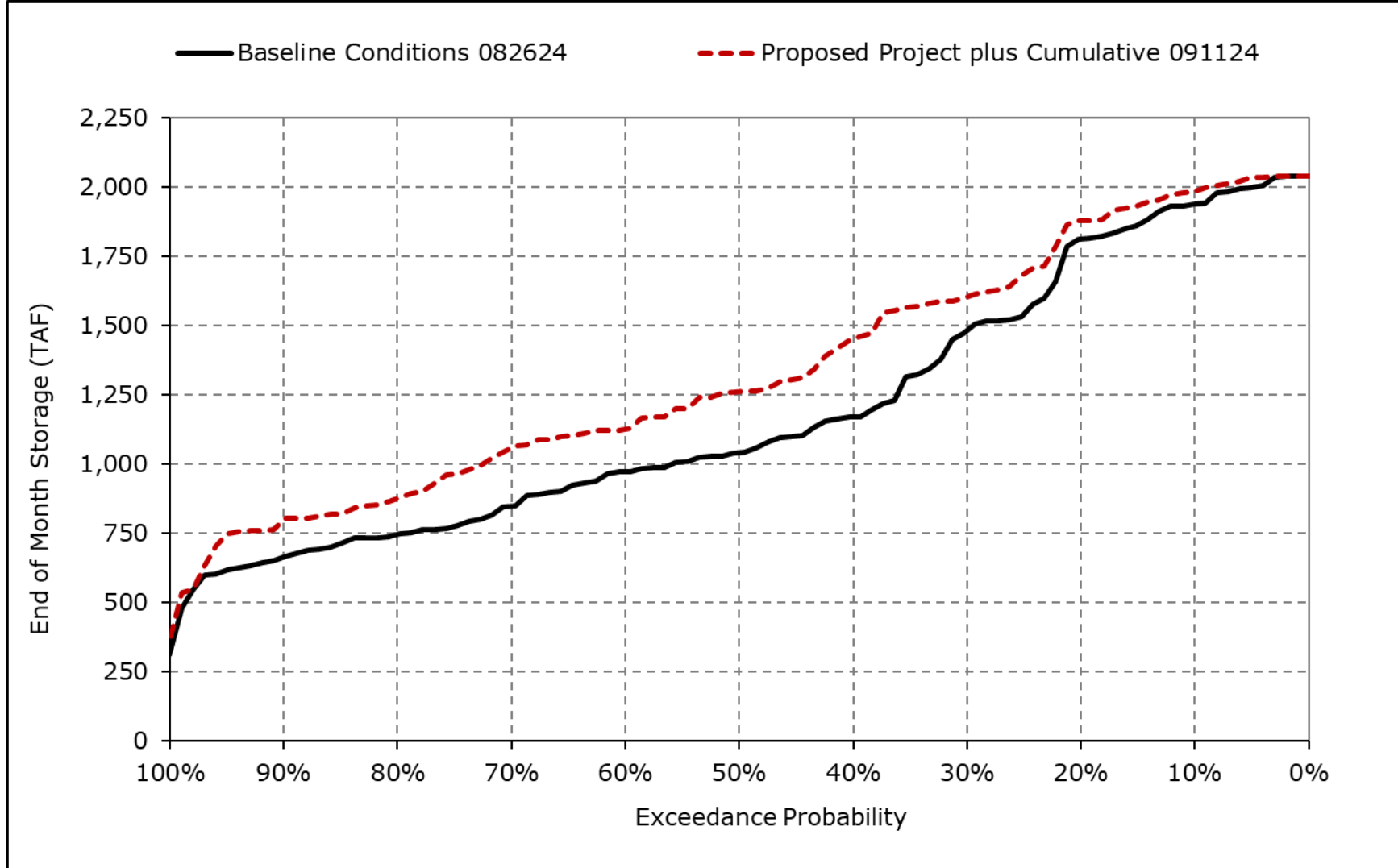
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2g. San Luis Storage (CVP and SWP), April



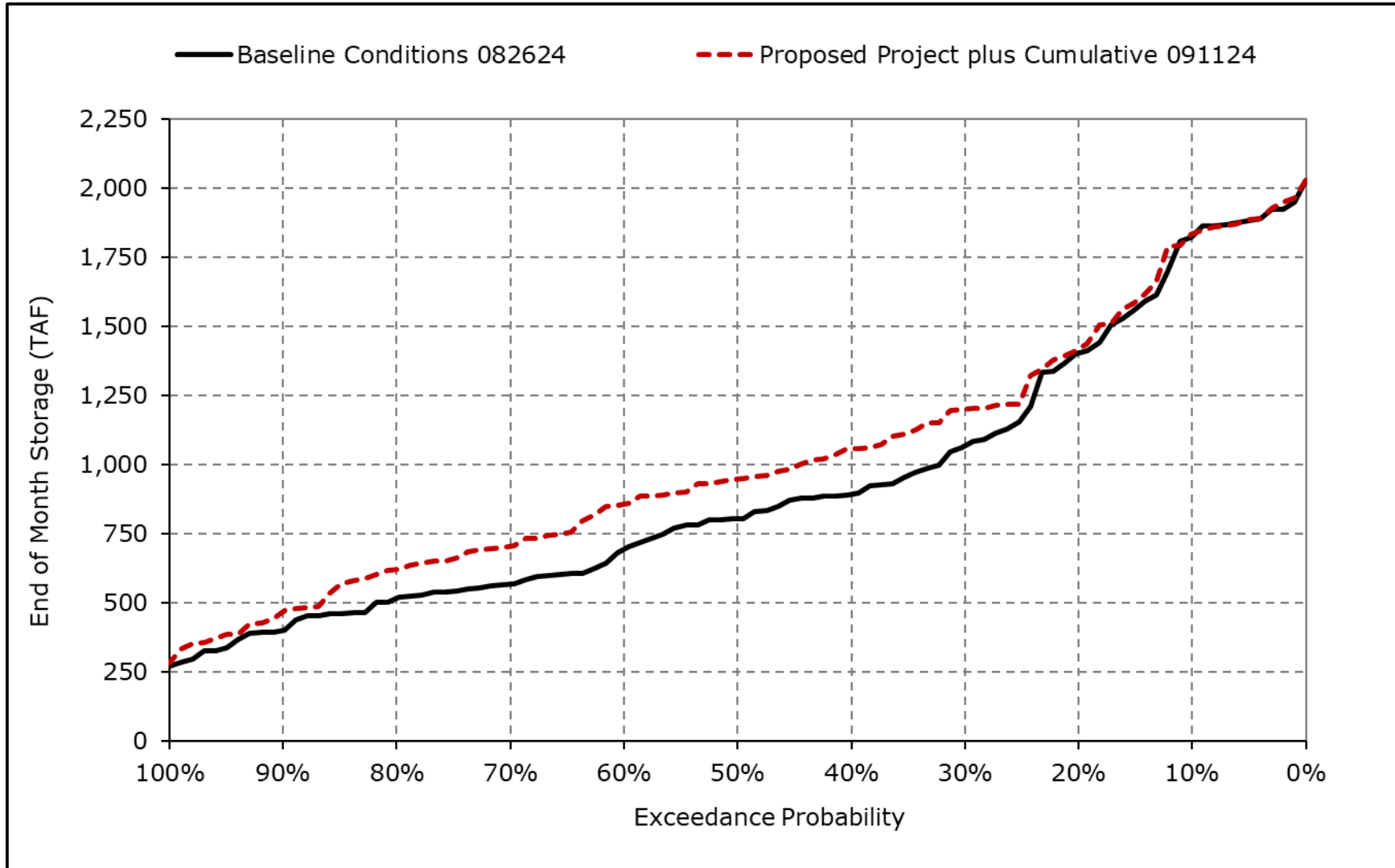
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2h. San Luis Storage (CVP and SWP), May



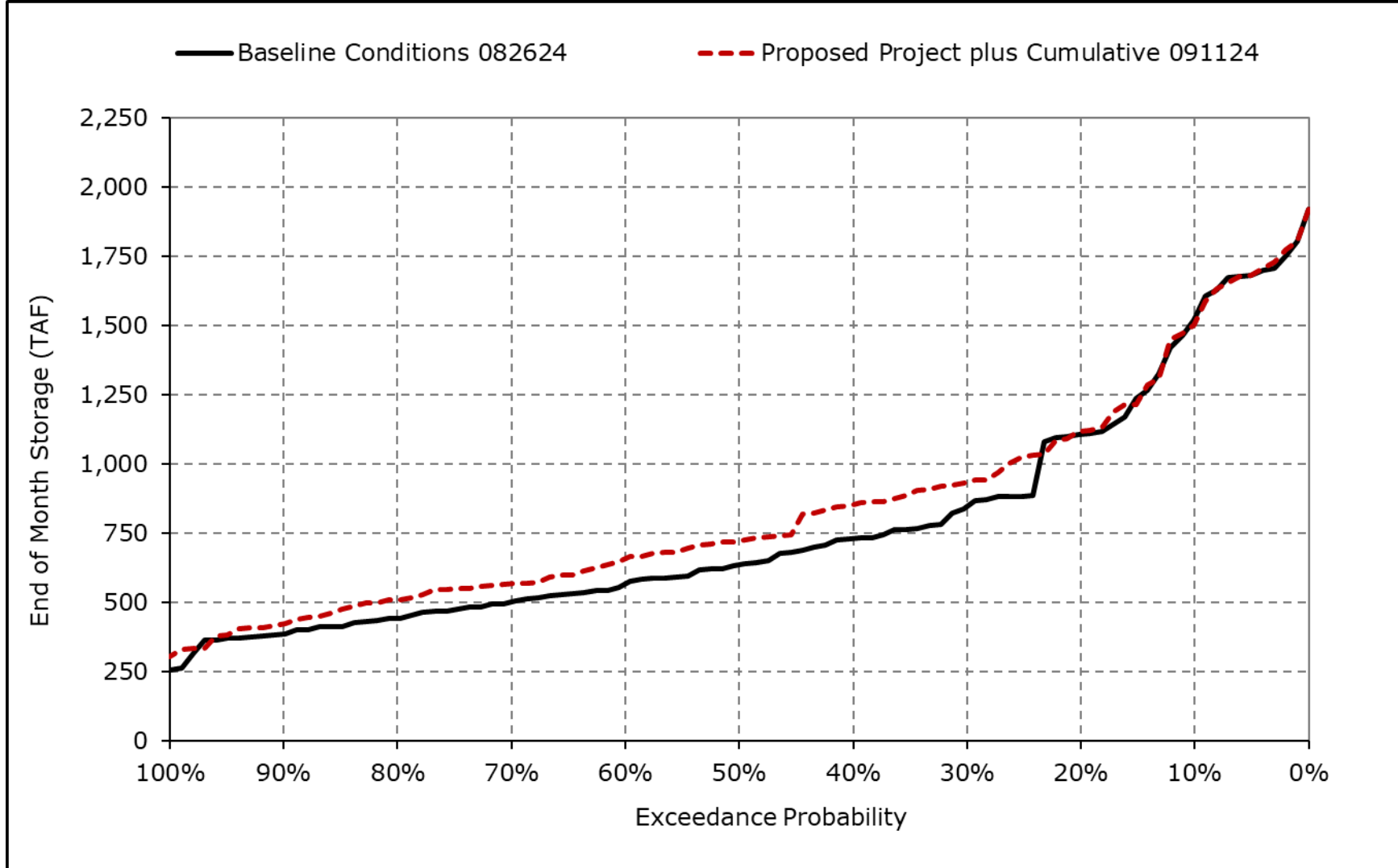
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2i. San Luis Storage (CVP and SWP), June



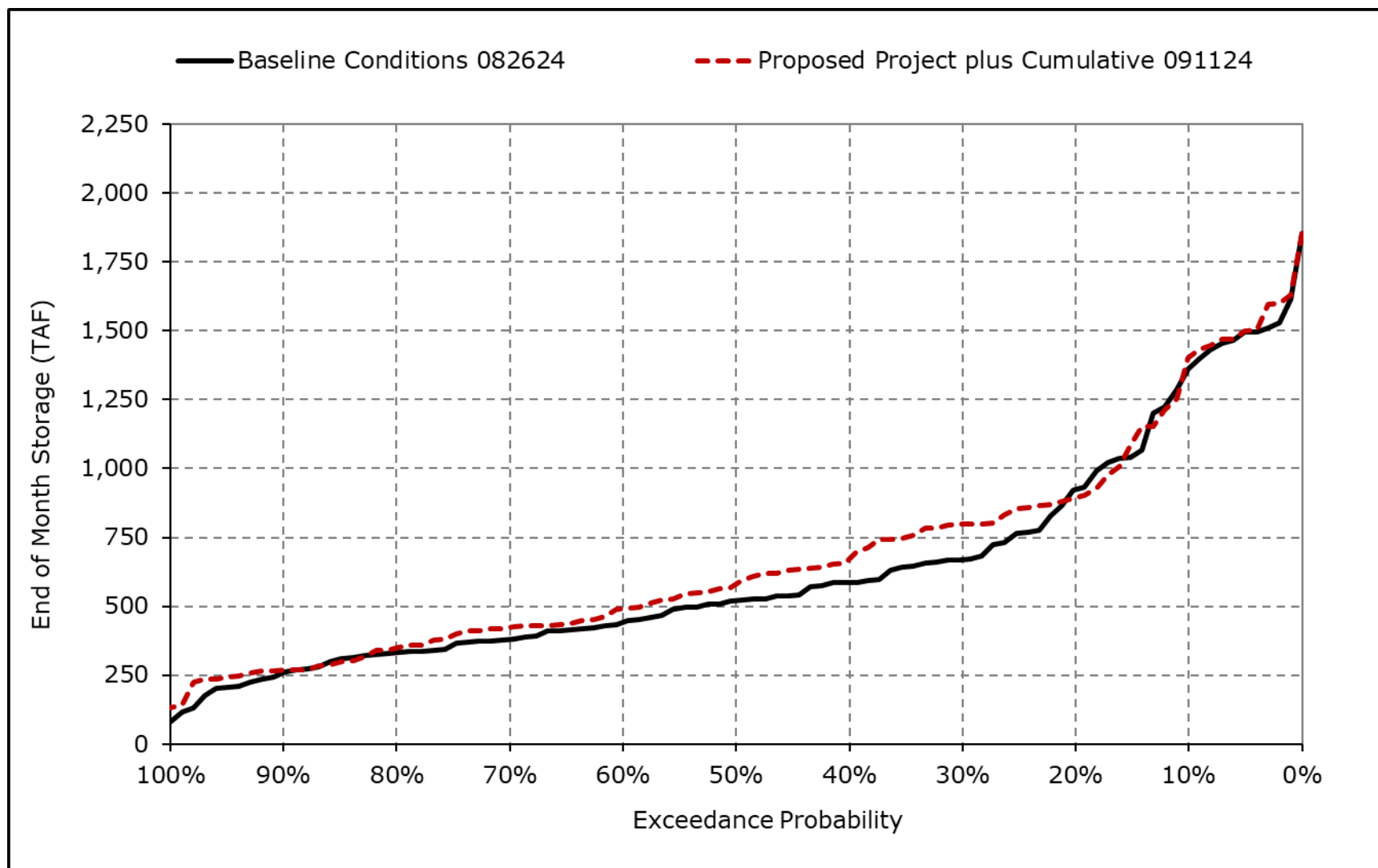
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2j. San Luis Storage (CVP and SWP), July



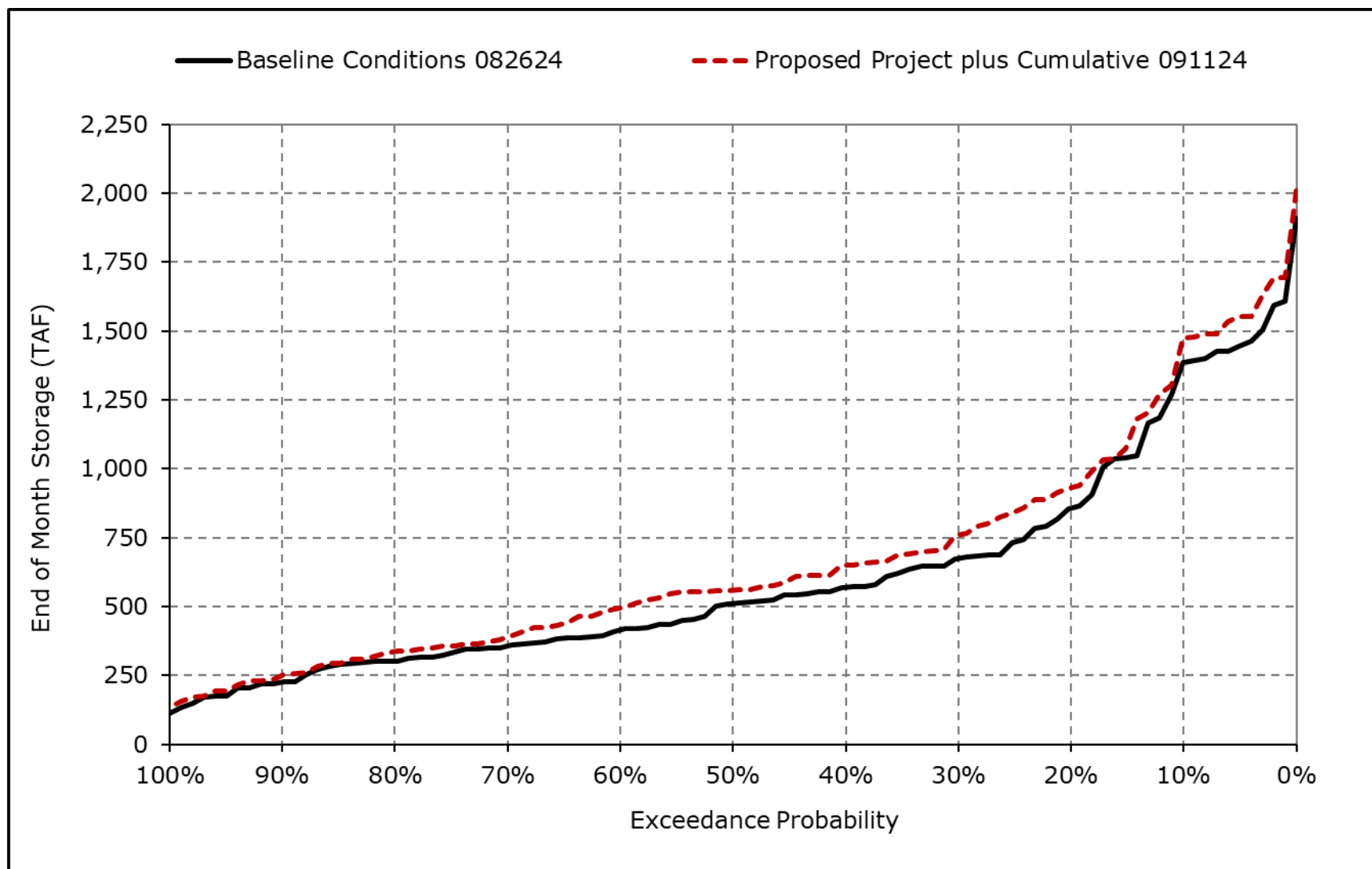
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2k. San Luis Storage (CVP and SWP), August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-2I. San Luis Storage (CVP and SWP), September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Table 4G-2-3-1a. San Luis Reservoir (SWP and CVP), Baseline Conditions 082624, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	490	507	523	527	539	544	544	536	527	502	487	489
20% Exceedance	452	471	492	506	530	544	529	525	491	463	445	438
30% Exceedance	424	453	477	494	513	530	519	497	459	437	417	418
40% Exceedance	413	436	461	482	497	509	493	469	442	424	407	405
50% Exceedance	399	421	451	470	487	498	478	457	432	413	400	398
60% Exceedance	390	406	436	461	478	489	472	450	420	405	389	385
70% Exceedance	376	399	422	449	473	482	463	437	405	397	380	377
80% Exceedance	370	389	412	438	467	472	455	426	399	389	373	370
90% Exceedance	354	371	395	412	438	452	437	417	383	381	361	355
Full Simulation Period Average ^a	409	430	452	471	490	500	487	468	441	426	408	405
Wet Water Years (32%)	412	440	466	492	515	526	523	510	484	465	452	449
Above Normal Water Years (9%)	414	438	469	490	510	520	505	484	447	427	418	403
Below Normal Water Years (20%)	423	445	461	476	493	502	478	446	409	403	395	398
Dry Water Years (21%)	409	426	446	460	472	483	464	438	414	403	369	368
Critical Water Years (18%)	386	395	414	430	451	460	452	444	428	407	384	382

Table 4G-2-3-1b. San Luis Reservoir (SWP and CVP), Proposed Project plus Cumulative 091124, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	496	515	531	533	542	544	544	540	528	500	491	497
20% Exceedance	455	474	498	509	529	543	537	531	492	464	442	446
30% Exceedance	436	462	482	496	519	527	523	508	472	446	432	428
40% Exceedance	419	444	465	484	501	512	504	495	458	438	418	415
50% Exceedance	410	432	456	474	492	498	487	477	448	423	407	404
60% Exceedance	396	416	447	468	485	490	480	465	438	416	396	396
70% Exceedance	382	406	425	454	471	479	467	458	421	405	386	382
80% Exceedance	374	391	413	436	460	465	454	440	412	398	376	374
90% Exceedance	365	374	403	419	439	448	440	432	393	386	363	360
Full Simulation Period Average ^a	416	437	457	474	491	499	492	482	451	433	414	412
Wet Water Years (32%)	419	446	471	494	516	525	524	515	485	465	454	457
Above Normal Water Years (9%)	419	444	474	492	510	515	504	489	447	429	423	413
Below Normal Water Years (20%)	431	452	467	480	496	500	489	475	436	423	409	407
Dry Water Years (21%)	415	433	451	462	472	480	467	454	425	410	373	370
Critical Water Years (18%)	395	404	420	434	454	464	461	459	441	415	389	388

Table 4G-2-3-1c. San Luis Reservoir (SWP and CVP), Proposed Project plus Cumulative 091124 minus Baseline Conditions 082624, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	6	8	8	6	3	0	0	4	1	-2	4	8
20% Exceedance	3	3	7	3	0	-1	8	6	1	1	-3	8
30% Exceedance	12	9	4	2	6	-2	4	10	12	9	14	10
40% Exceedance	6	8	3	2	4	3	10	26	16	13	10	10
50% Exceedance	12	11	5	4	5	0	9	21	15	10	7	6
60% Exceedance	5	10	11	7	6	1	7	15	18	11	7	11
70% Exceedance	6	7	3	5	-2	-3	4	22	16	8	6	5
80% Exceedance	5	2	2	-2	-6	-6	0	14	12	9	2	5
90% Exceedance	12	3	8	7	1	-4	3	15	10	5	2	5
Full Simulation Period Average ^a	7	7	5	3	1	-1	5	14	10	7	6	7
Wet Water Years (32%)	7	6	5	2	1	0	1	5	1	1	2	8
Above Normal Water Years (9%)	4	6	5	2	0	-5	-1	5	0	2	5	11
Below Normal Water Years (20%)	8	7	6	4	3	-3	11	28	26	20	14	9
Dry Water Years (21%)	6	7	5	2	0	-3	3	16	11	6	4	2
Critical Water Years (18%)	9	8	6	4	3	4	8	15	12	8	6	6

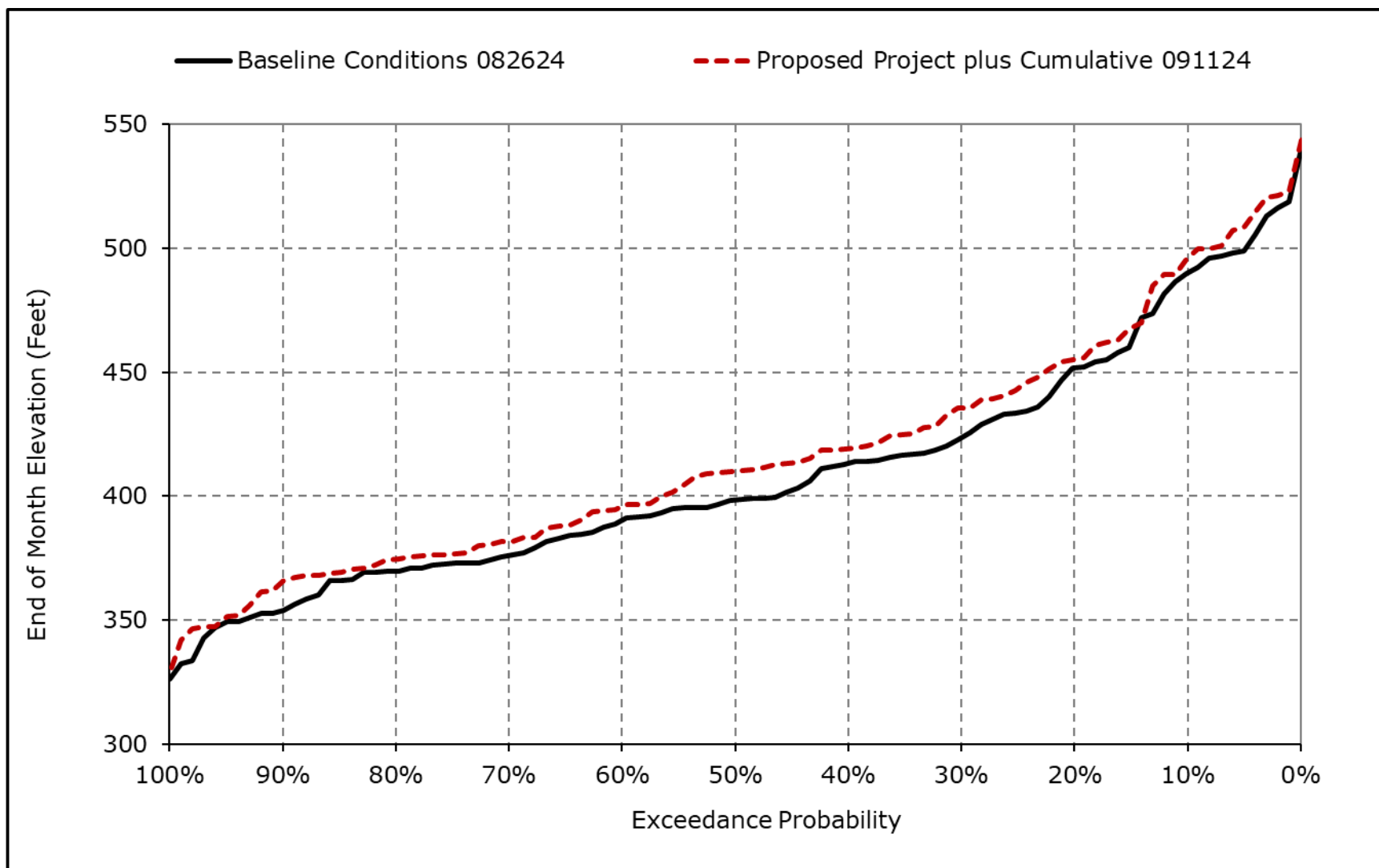
^a Based on the 100-year simulation period.

* All scenarios are simulated at current climate condition and 0 cm sea level rise.

* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

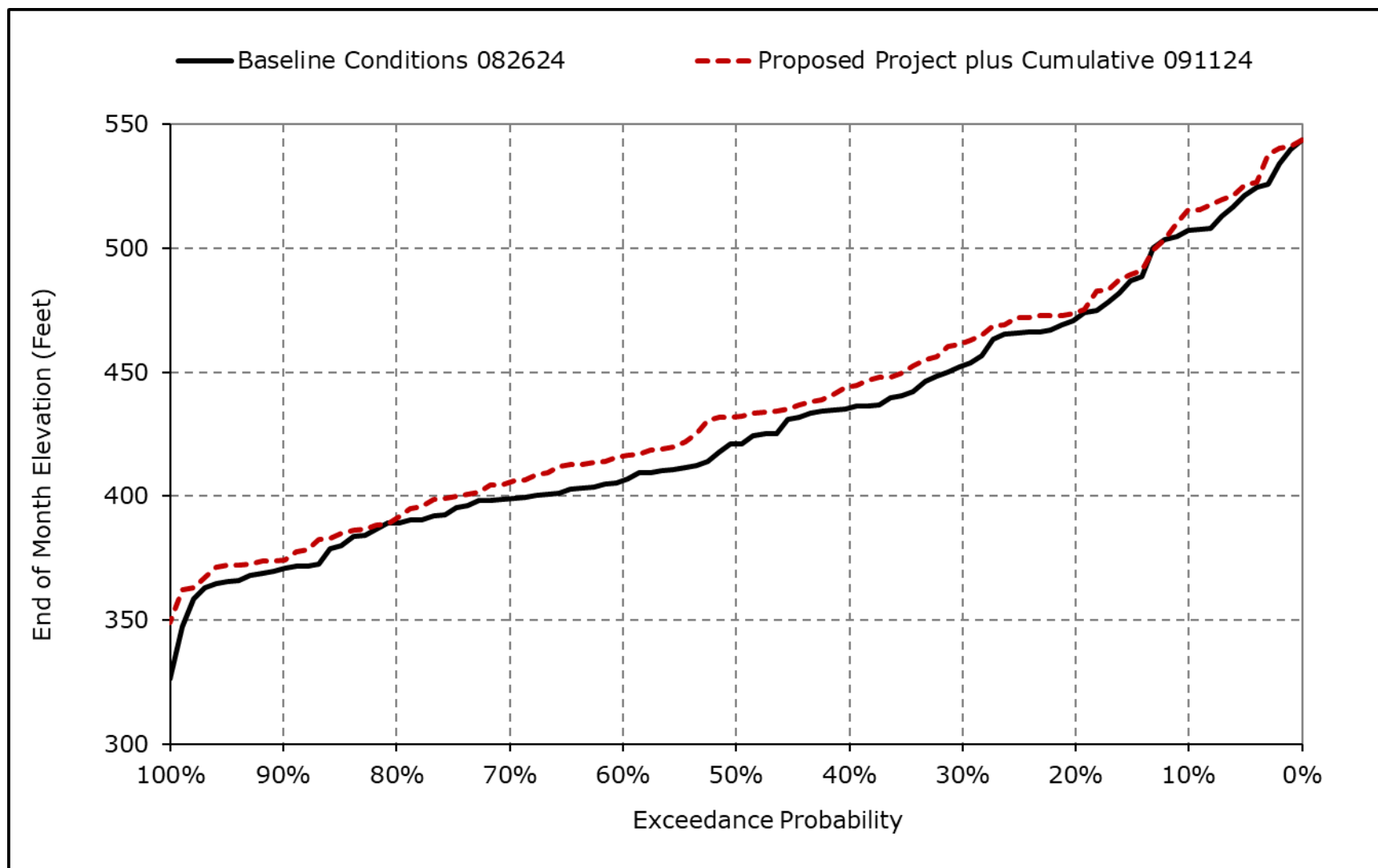
* Water Year Types results are displayed with water year - year type sorting.

Figure 4G-2-3a. San Luis Reservoir (SWP and CVP), October



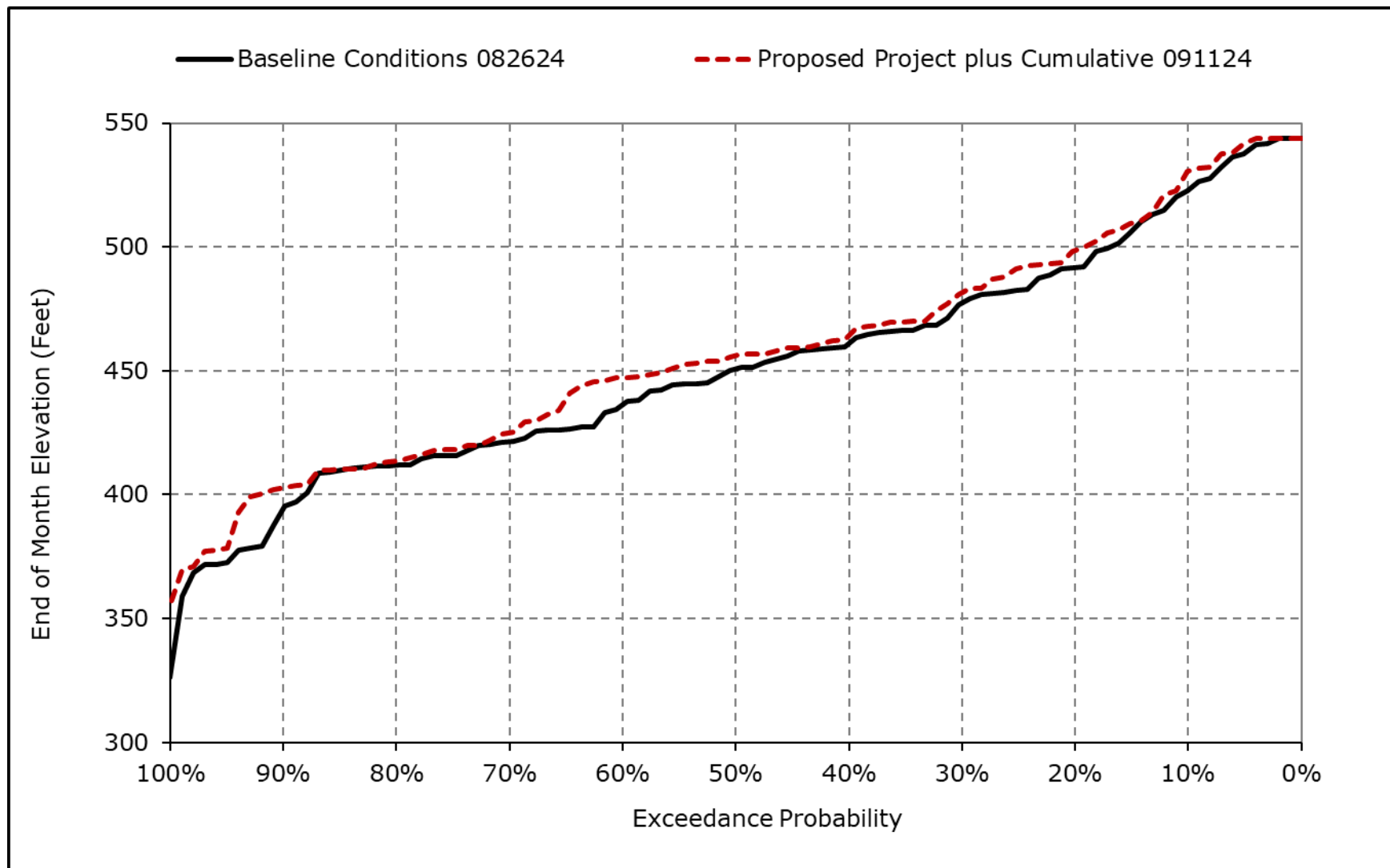
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3b. San Luis Reservoir (SWP and CVP), November



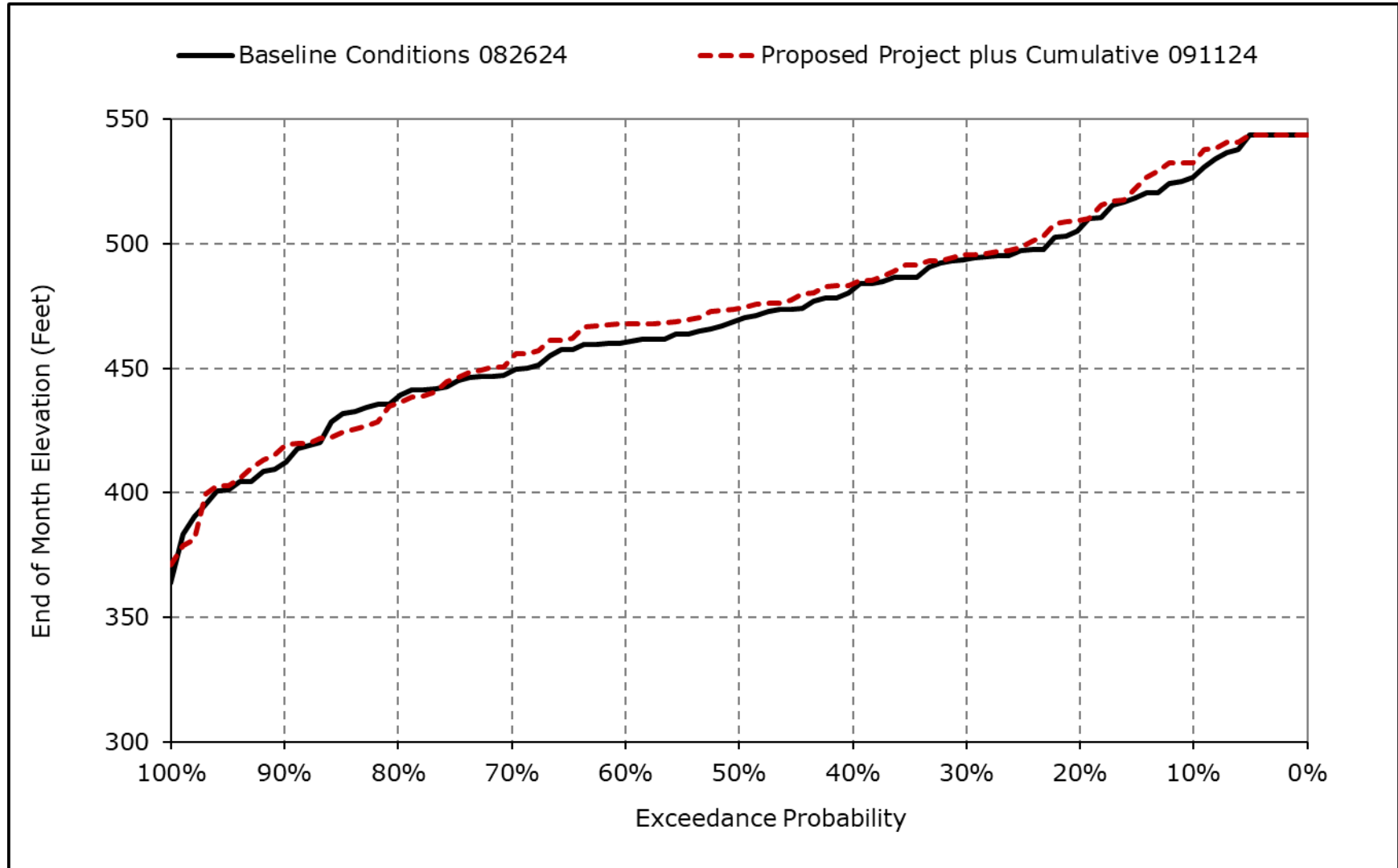
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3c. San Luis Reservoir (SWP and CVP), December



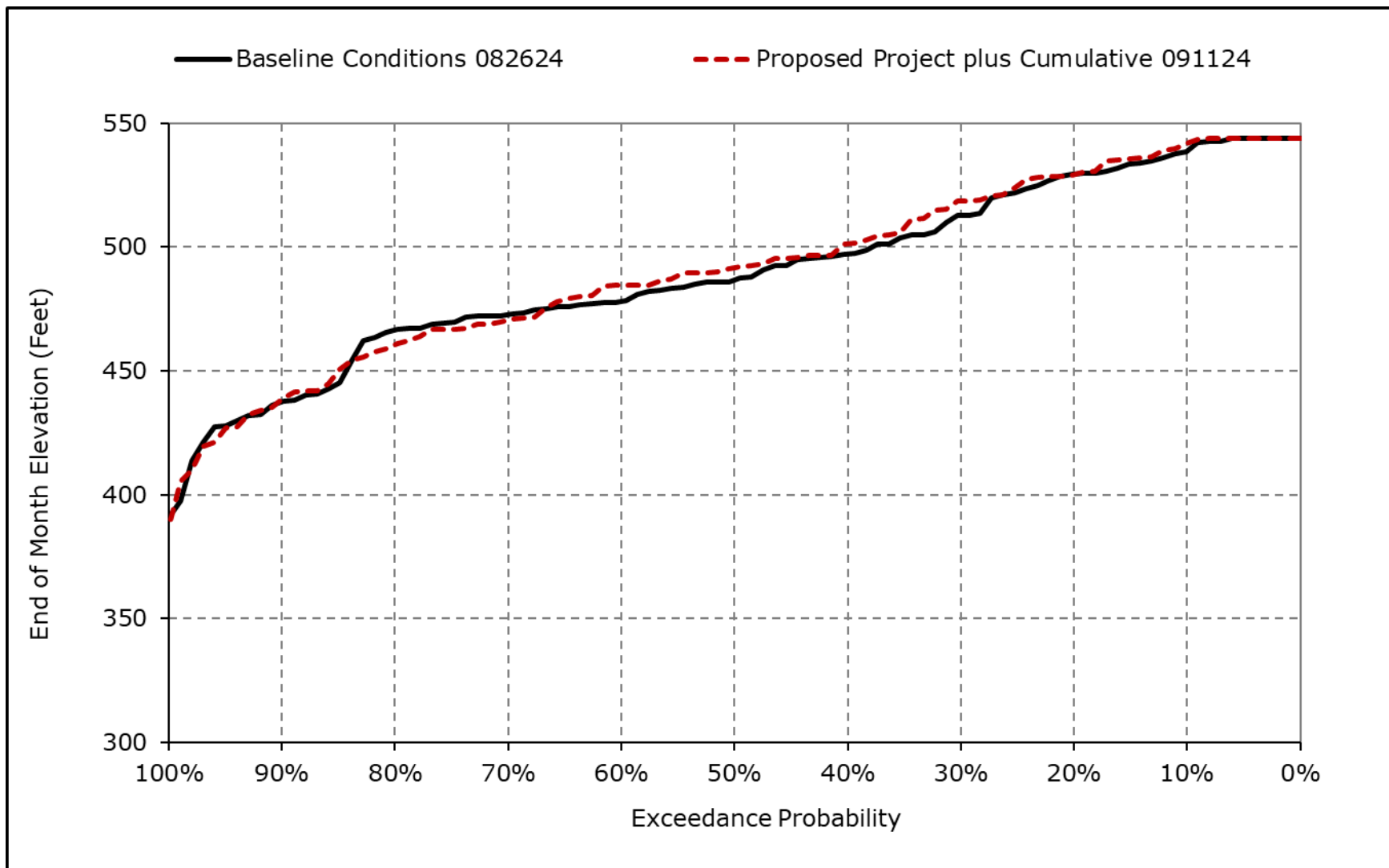
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3d. San Luis Reservoir (SWP and CVP), January



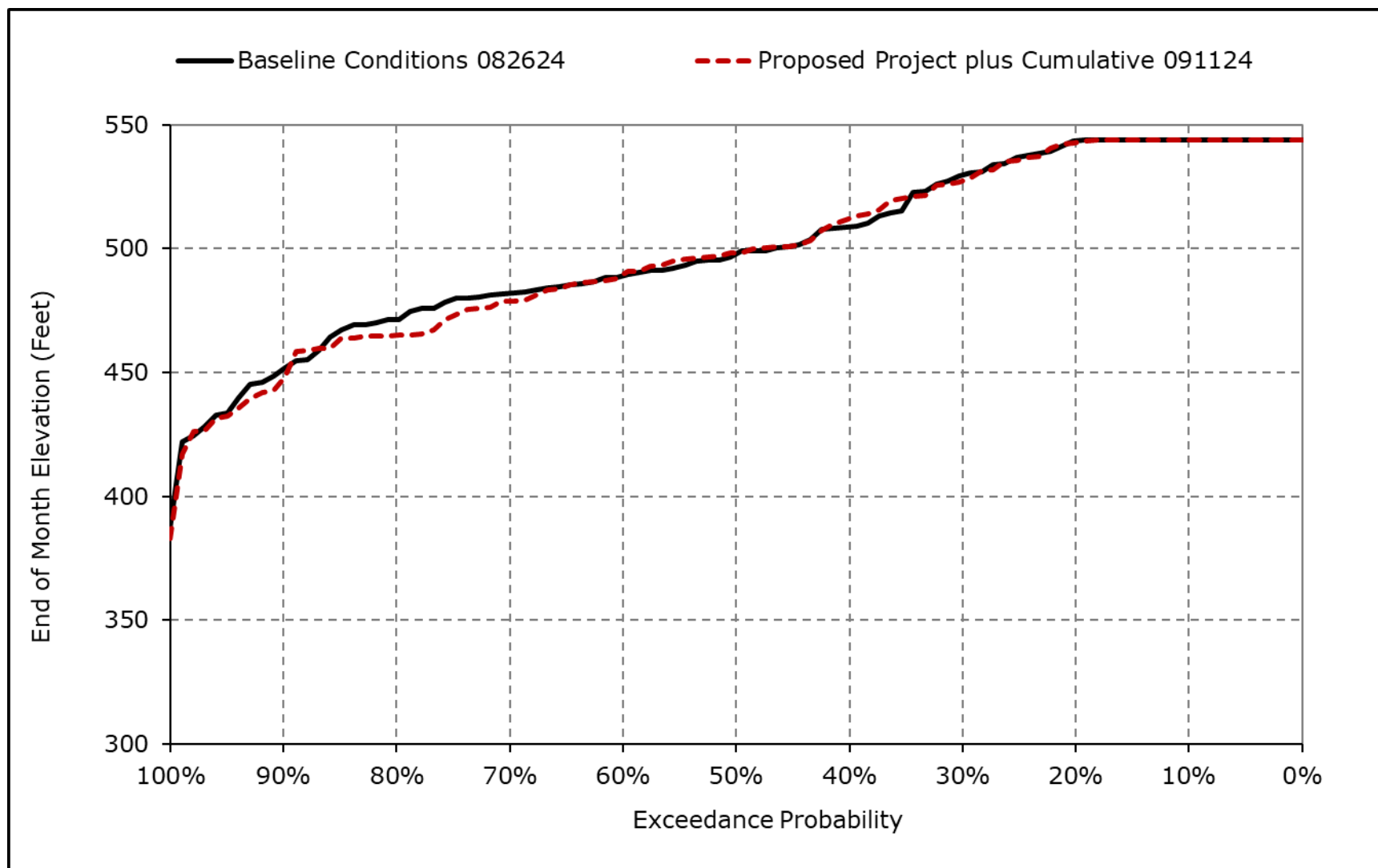
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3e. San Luis Reservoir (SWP and CVP), February



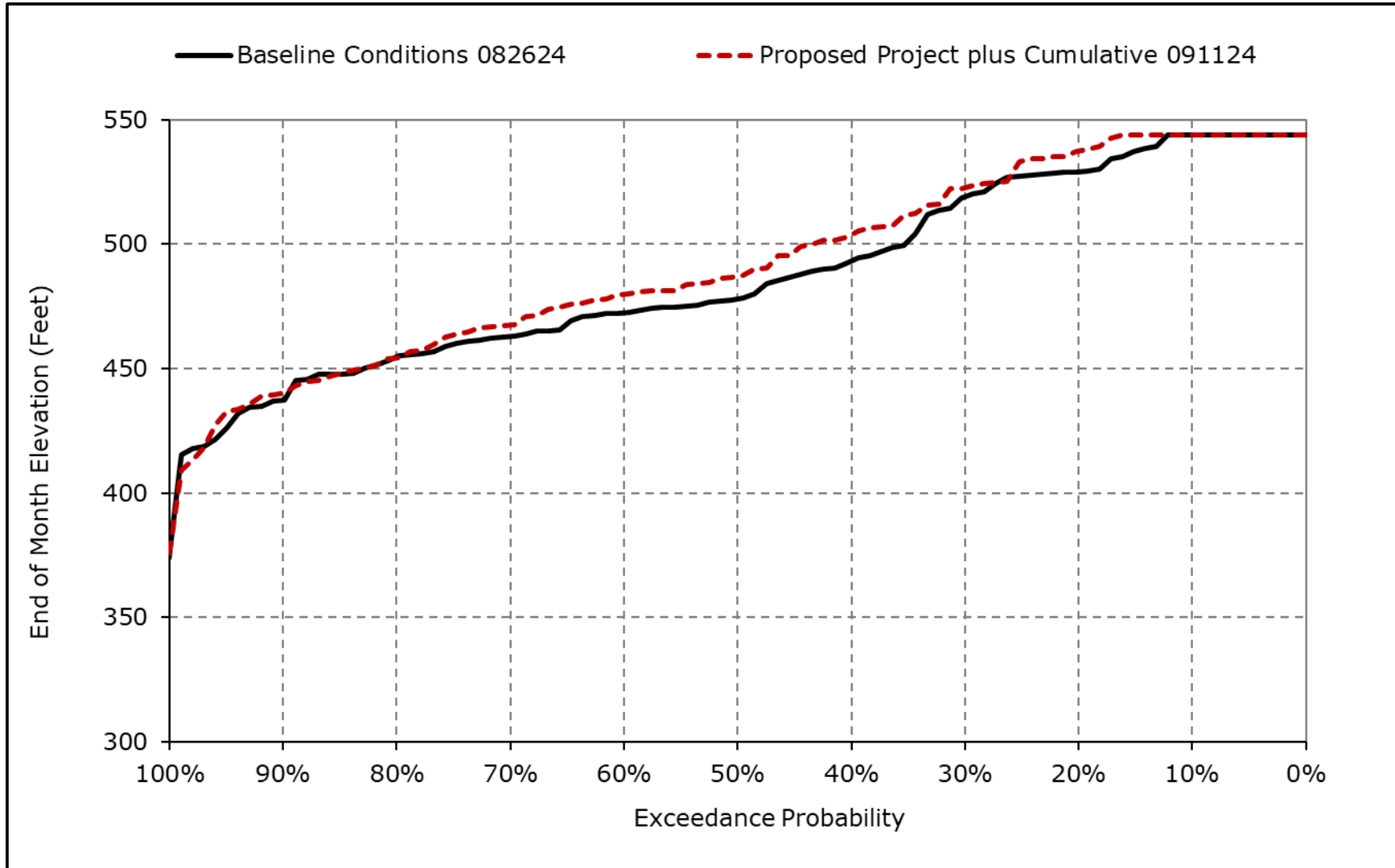
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3f. San Luis Reservoir (SWP and CVP), March



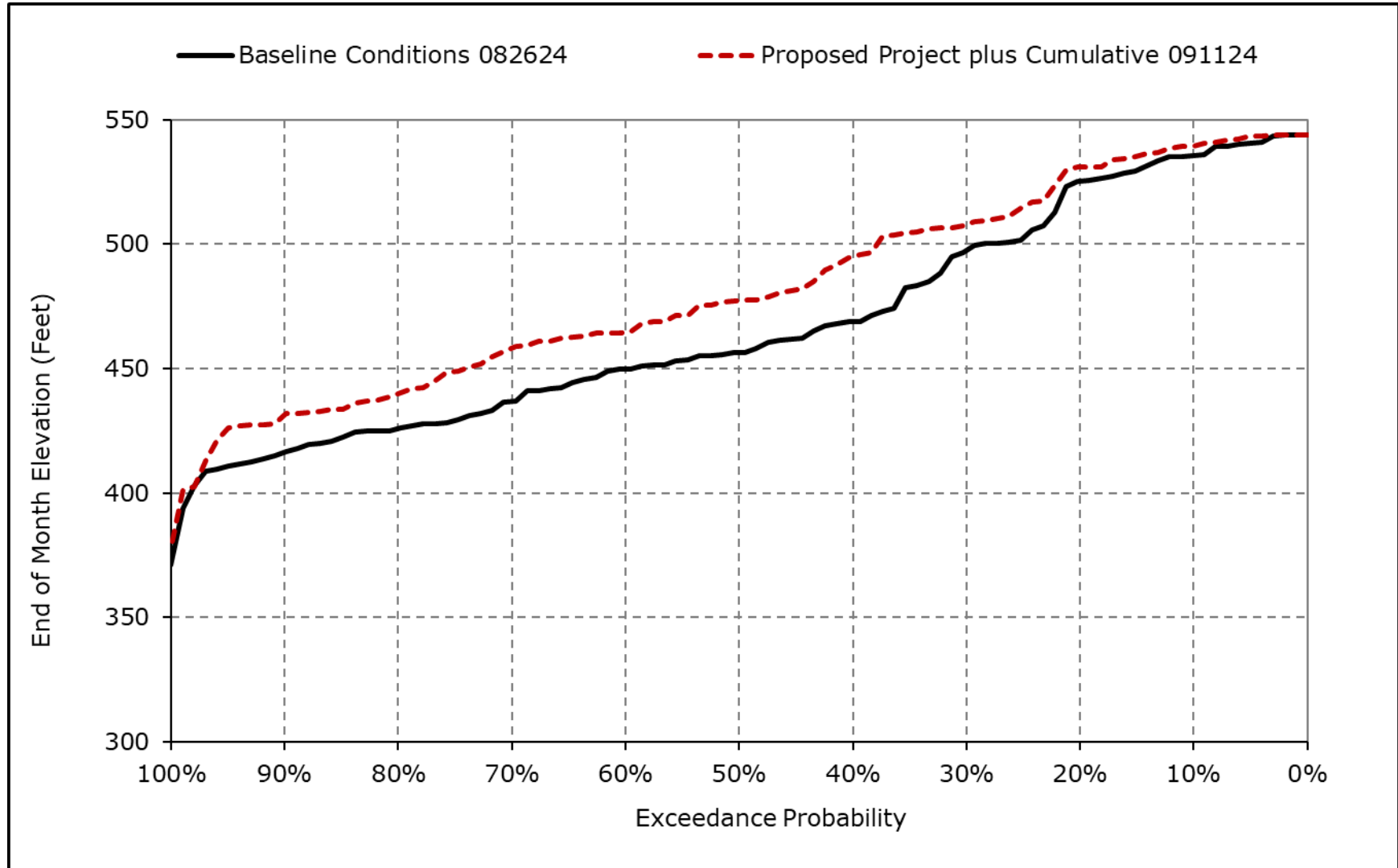
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3g. San Luis Reservoir (SWP and CVP), April



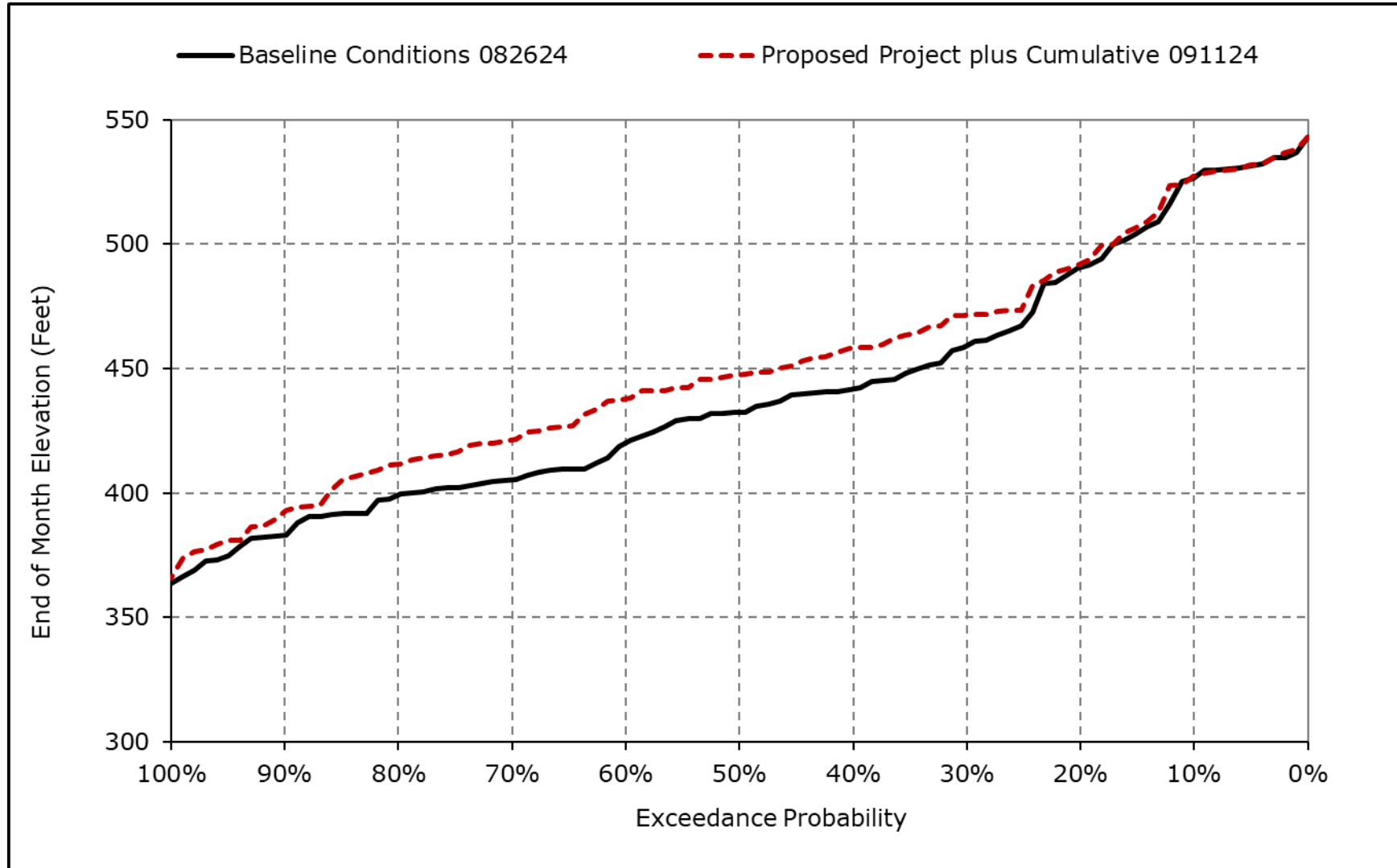
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3h. San Luis Reservoir (SWP and CVP), May



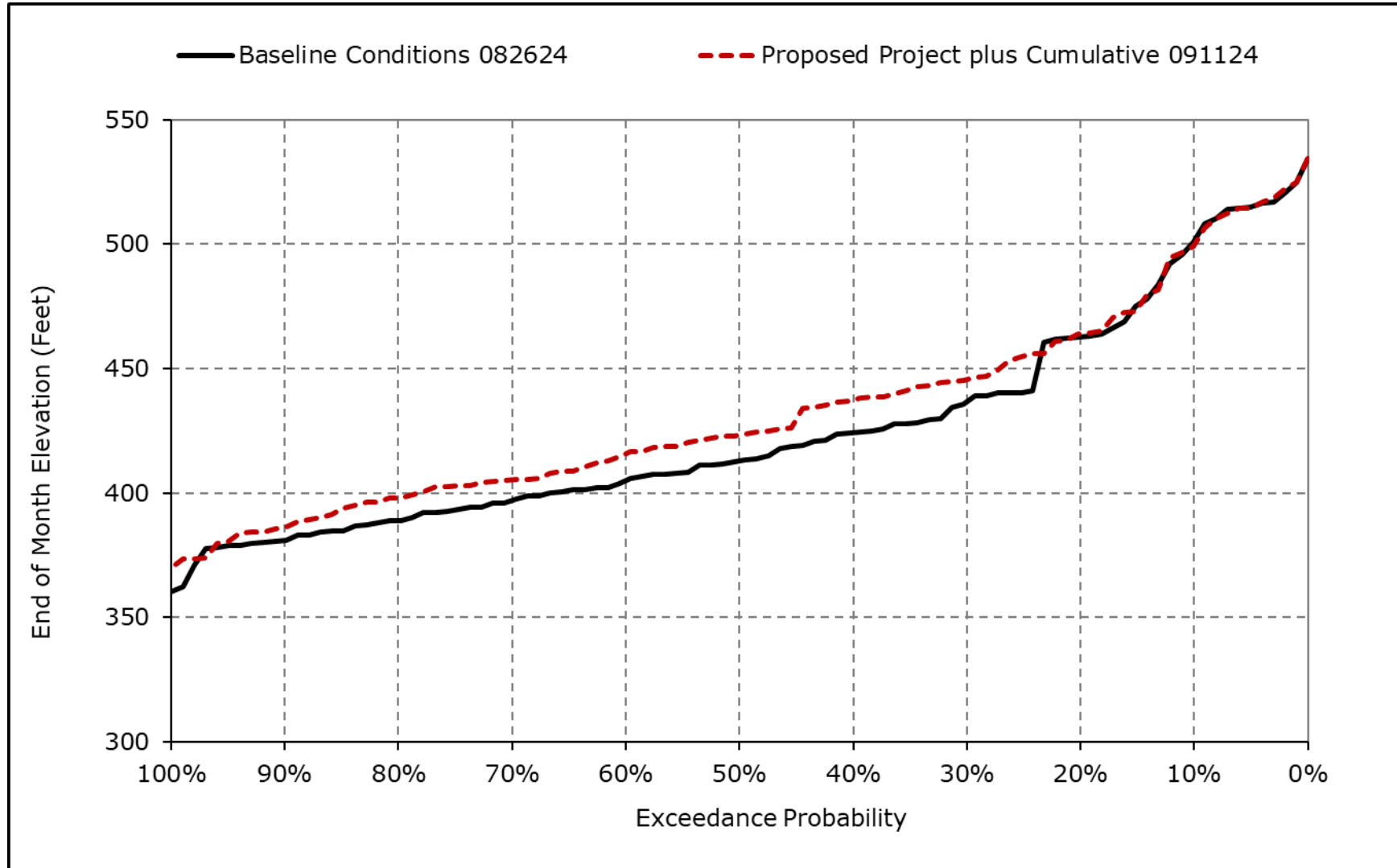
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3i. San Luis Reservoir (SWP and CVP), June



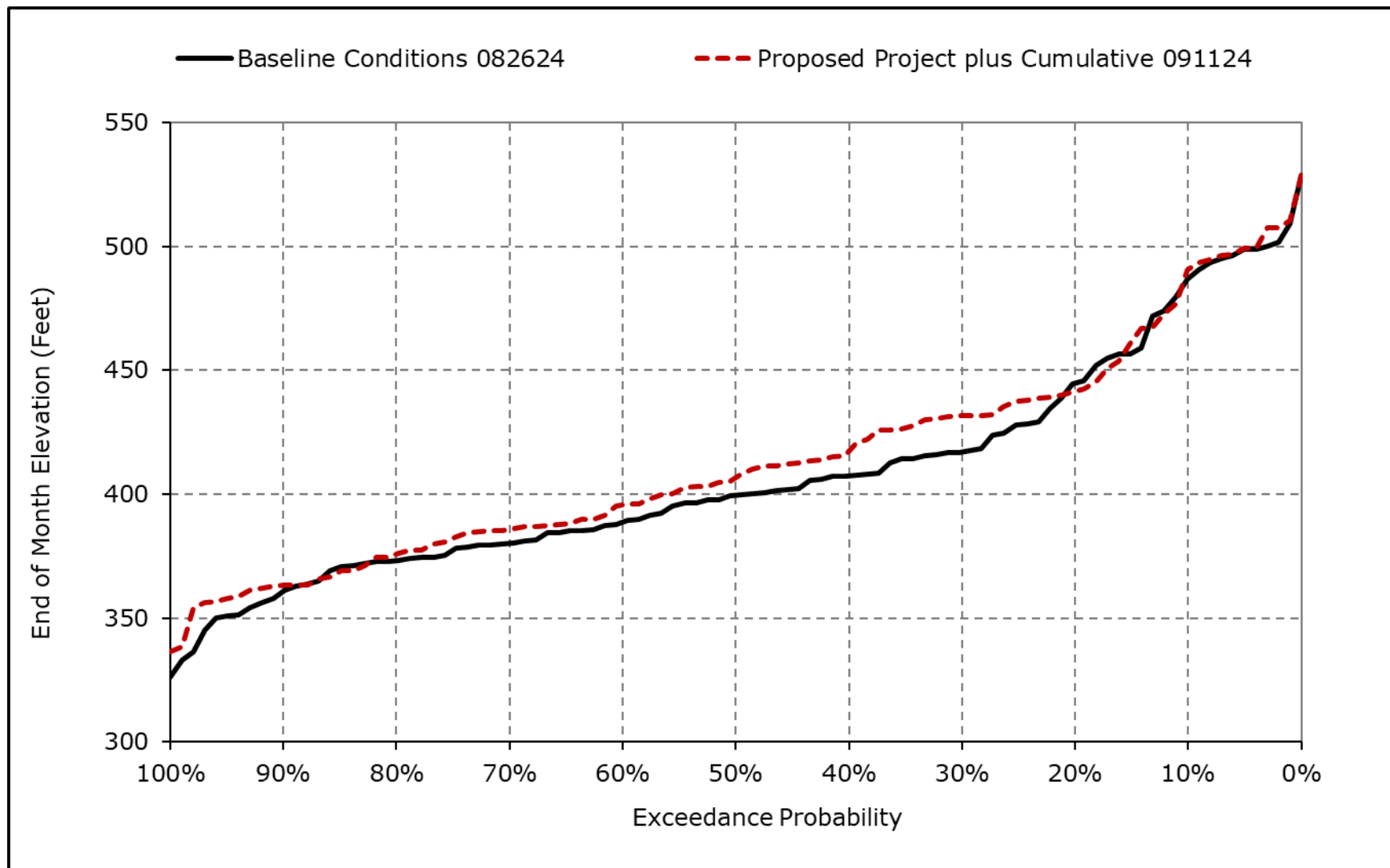
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3j. San Luis Reservoir (SWP and CVP), July



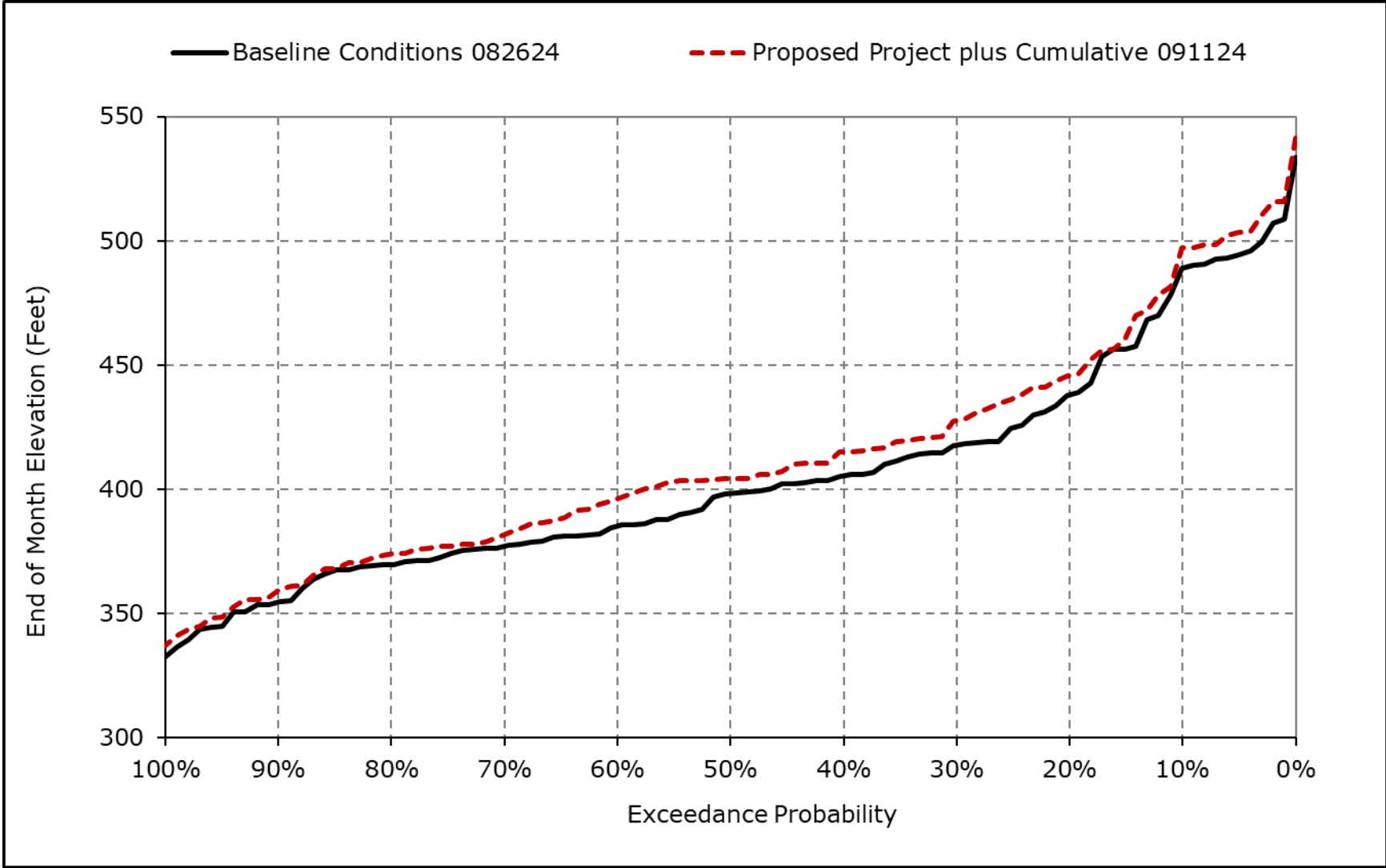
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3k. San Luis Reservoir (SWP and CVP), August



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4G-2-3I. San Luis Reservoir (SWP and CVP), September



*All scenarios are simulated at current climate condition and 0 cm sea level rise.