

Attachment 1b: 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 (082624)

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

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 4B-1-1-1a. 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 4B-1-1-1b. San Luis SWP Storage, Proposed Project 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	868	947	1,067	1,033	1,067	1,067	1,067	1,067	958	918	869	875
20% Exceedance	705	777	817	883	992	1,067	1,037	964	767	741	732	699
30% Exceedance	556	666	737	780	886	970	916	840	656	659	634	609
40% Exceedance	481	549	651	685	771	859	788	723	546	554	556	512
50% Exceedance	423	444	576	641	722	727	662	591	453	479	468	433
60% Exceedance	315	365	458	557	619	649	575	514	358	423	382	304
70% Exceedance	199	286	386	497	567	595	540	447	315	338	289	233
80% Exceedance	156	157	247	389	457	473	412	374	276	298	236	163
90% Exceedance	61	102	119	244	336	373	340	284	136	235	189	122
Full Simulation Period Average ^a	428	485	556	627	708	744	695	642	506	522	488	446
Wet Water Years (32%)	468	558	627	720	840	898	902	871	715	726	733	731
Above Normal Water Years (9%)	489	584	715	784	861	888	784	697	489	549	600	536
Below Normal Water Years (20%)	492	546	607	655	704	716	619	538	363	436	462	400
Dry Water Years (21%)	400	440	497	549	584	611	530	448	341	372	222	143
Critical Water Years (18%)	287	290	361	445	546	581	561	548	495	418	337	298

Table 4B-1-1-1c. San Luis SWP Storage, Proposed Project 082624 minus Baseline Conditions 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	102	77	86	23	0	0	0	2	-24	4	29	114
20% Exceedance	87	45	49	57	41	0	67	49	27	6	48	68
30% Exceedance	31	64	59	32	-2	-19	-8	63	46	60	56	72
40% Exceedance	37	61	41	6	-13	0	4	52	19	57	60	32
50% Exceedance	39	18	36	29	14	1	-21	37	19	5	33	50
60% Exceedance	51	26	-1	8	-6	-33	-24	17	-18	32	28	32
70% Exceedance	-18	11	39	17	-19	-42	-27	41	9	10	-5	15
80% Exceedance	6	-17	-58	-2	-10	-64	-43	1	19	1	-4	-7
90% Exceedance	11	24	20	21	16	-37	-35	-7	-3	-19	6	10
Full Simulation Period Average ^a	34	31	25	15	-1	-19	-8	31	16	15	23	41
Wet Water Years (32%)	37	31	21	9	-2	-6	10	54	25	18	30	85
Above Normal Water Years (9%)	24	20	26	15	-5	-18	-8	44	16	21	28	73
Below Normal Water Years (20%)	38	33	32	22	0	-42	-16	55	48	43	51	34
Dry Water Years (21%)	40	40	22	13	-1	-32	-39	-17	-30	-14	-5	-3
Critical Water Years (18%)	23	22	27	19	1	-2	3	14	15	10	7	5

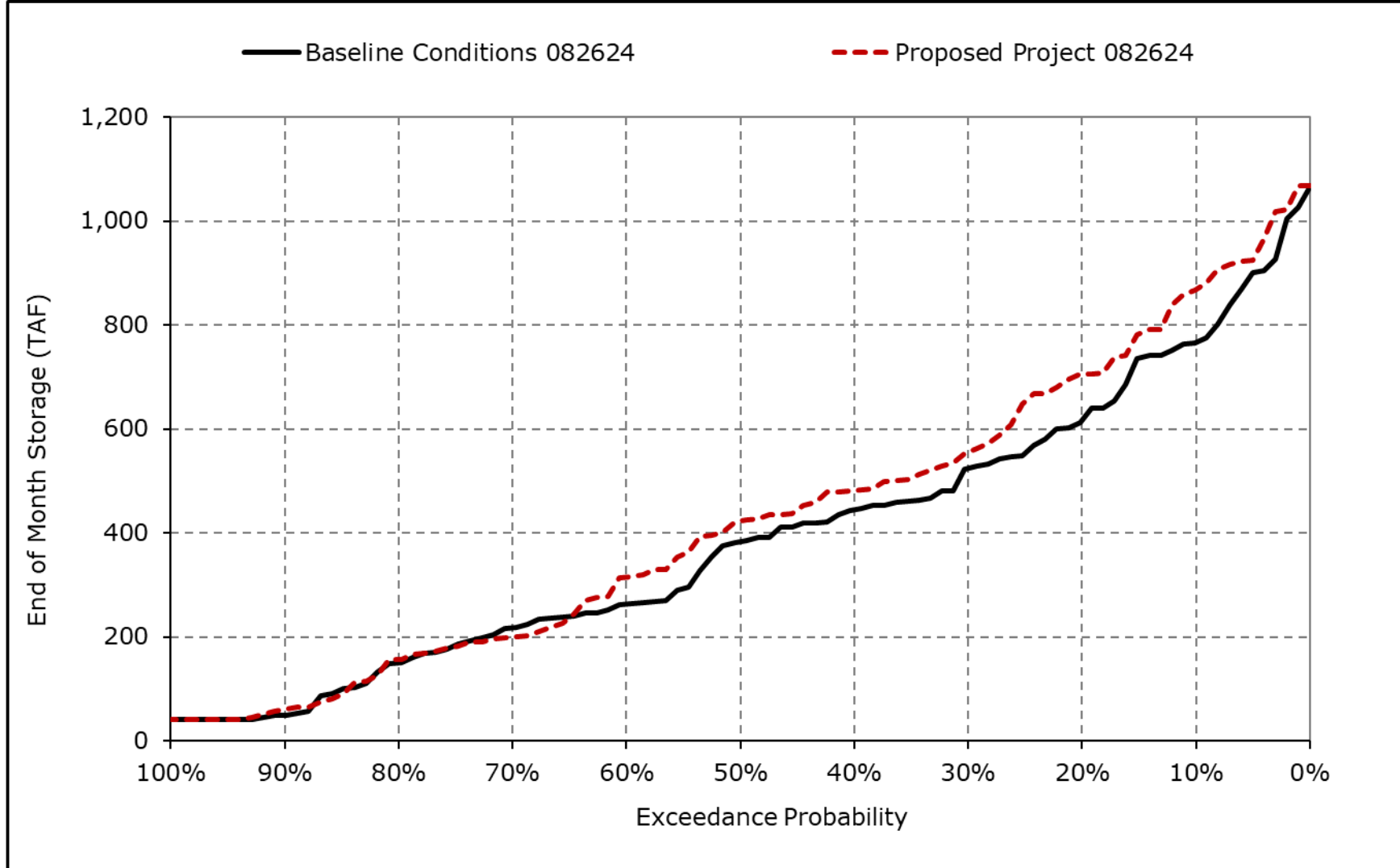
^a Based on the 100-year simulation period.

* 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).

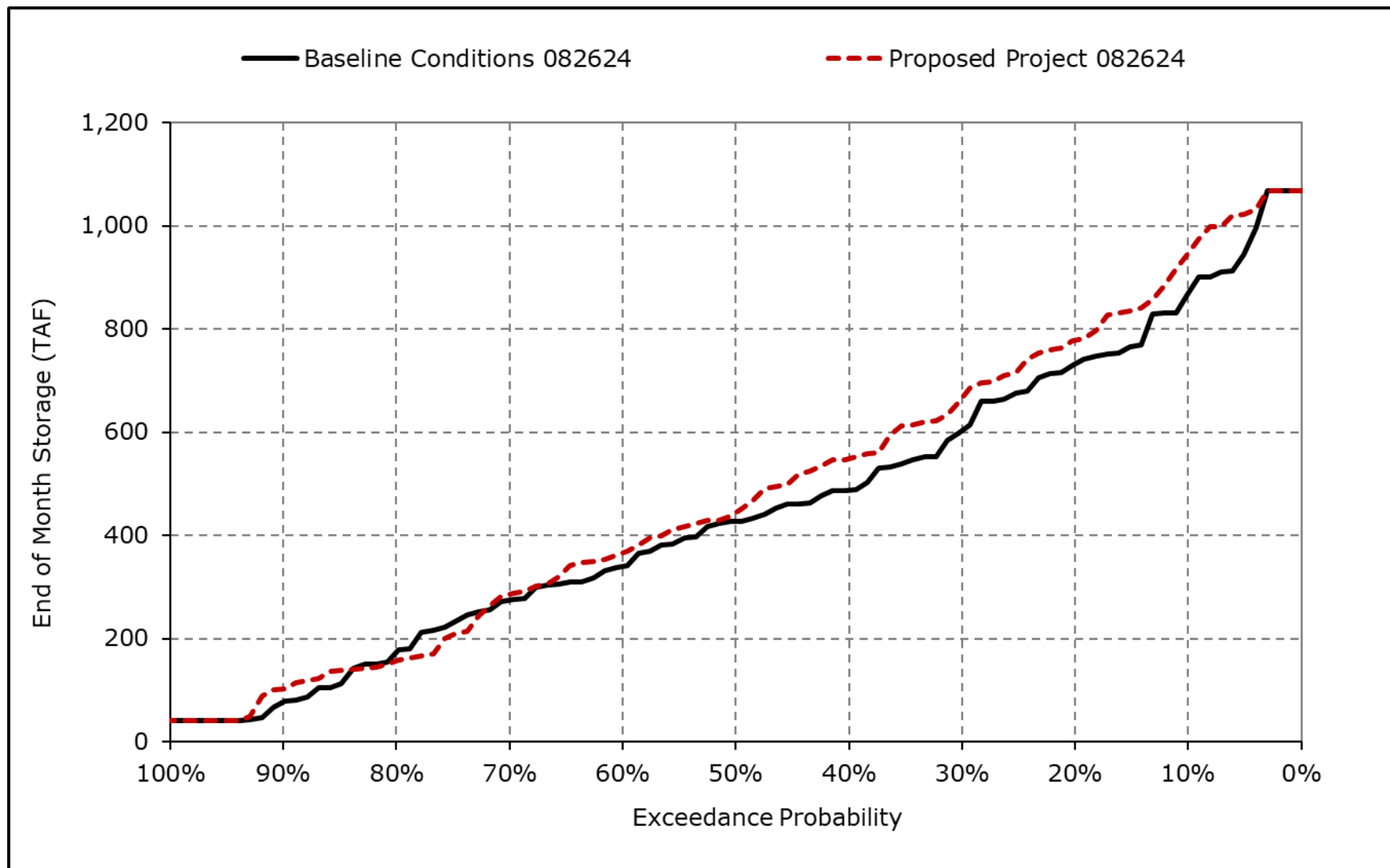
* Water Year Types results are displayed with water year - year type sorting.

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



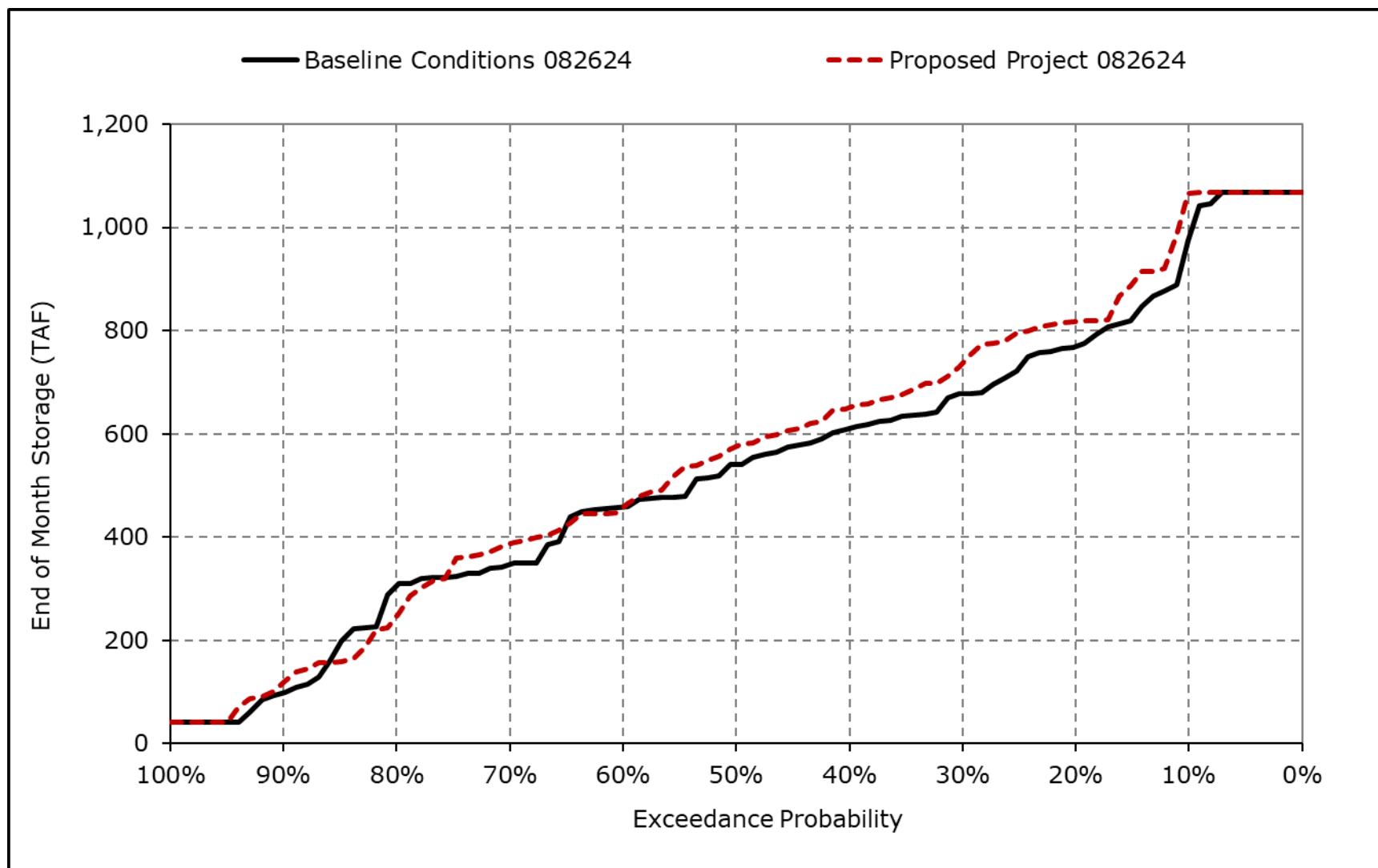
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



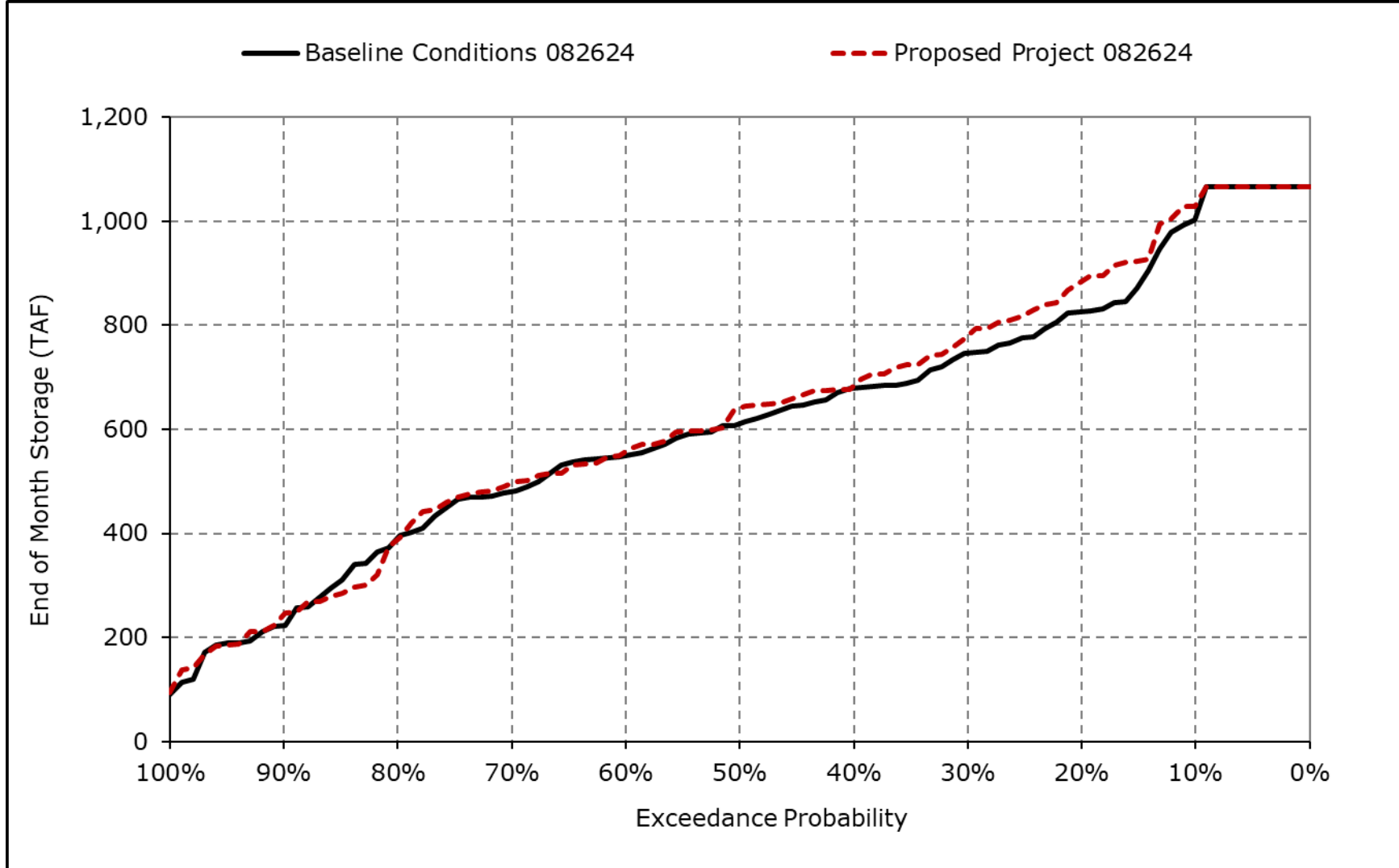
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



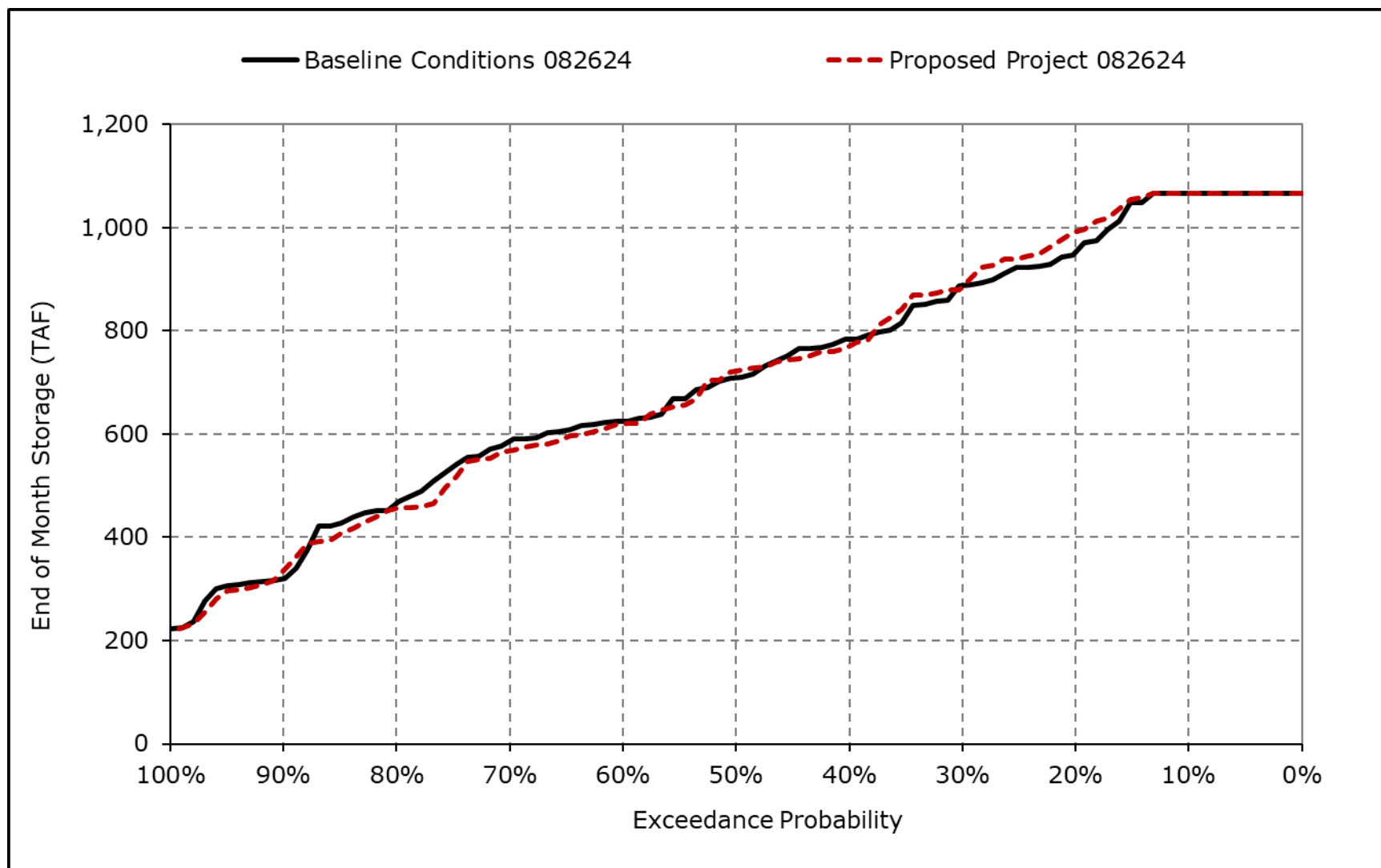
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



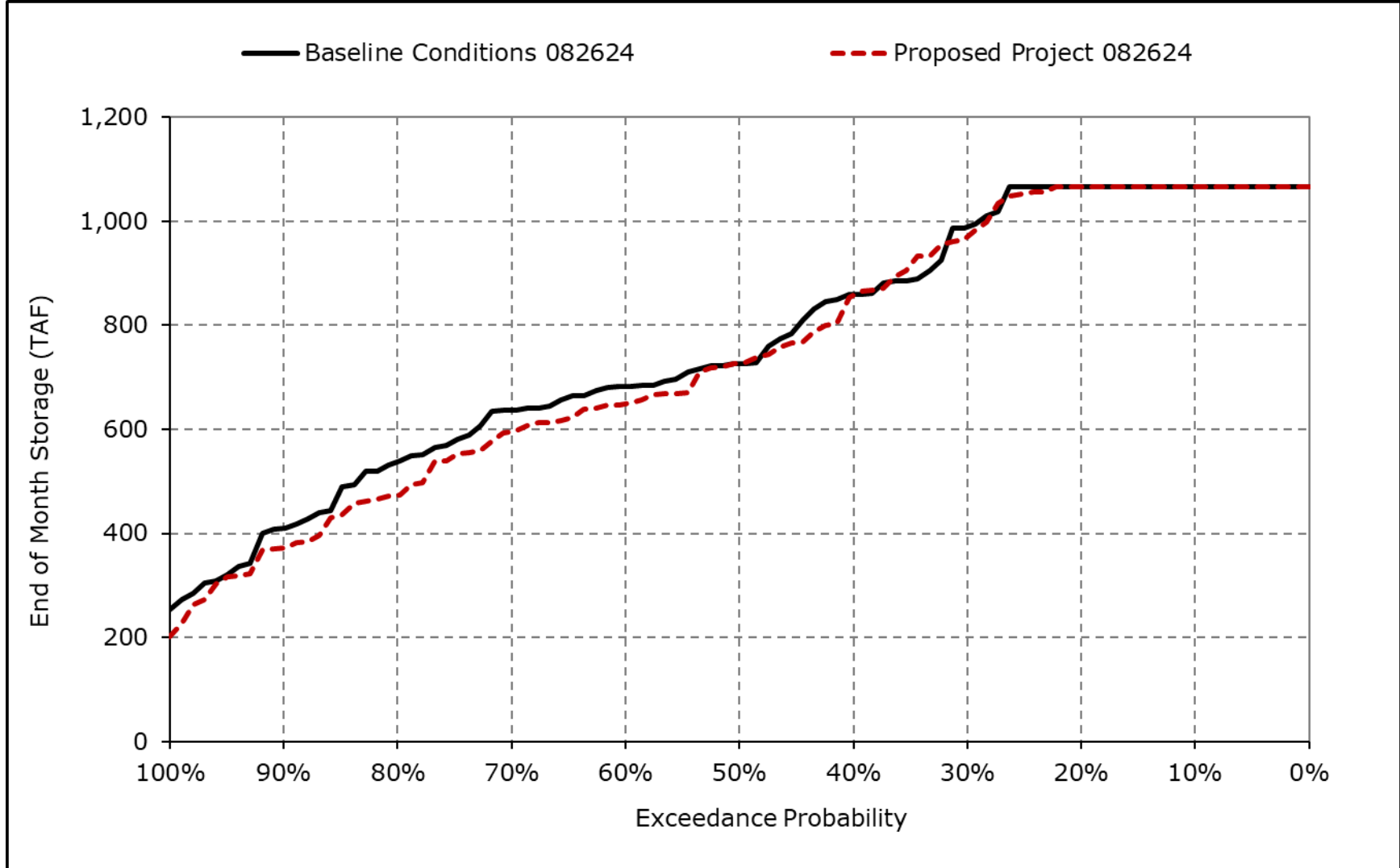
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



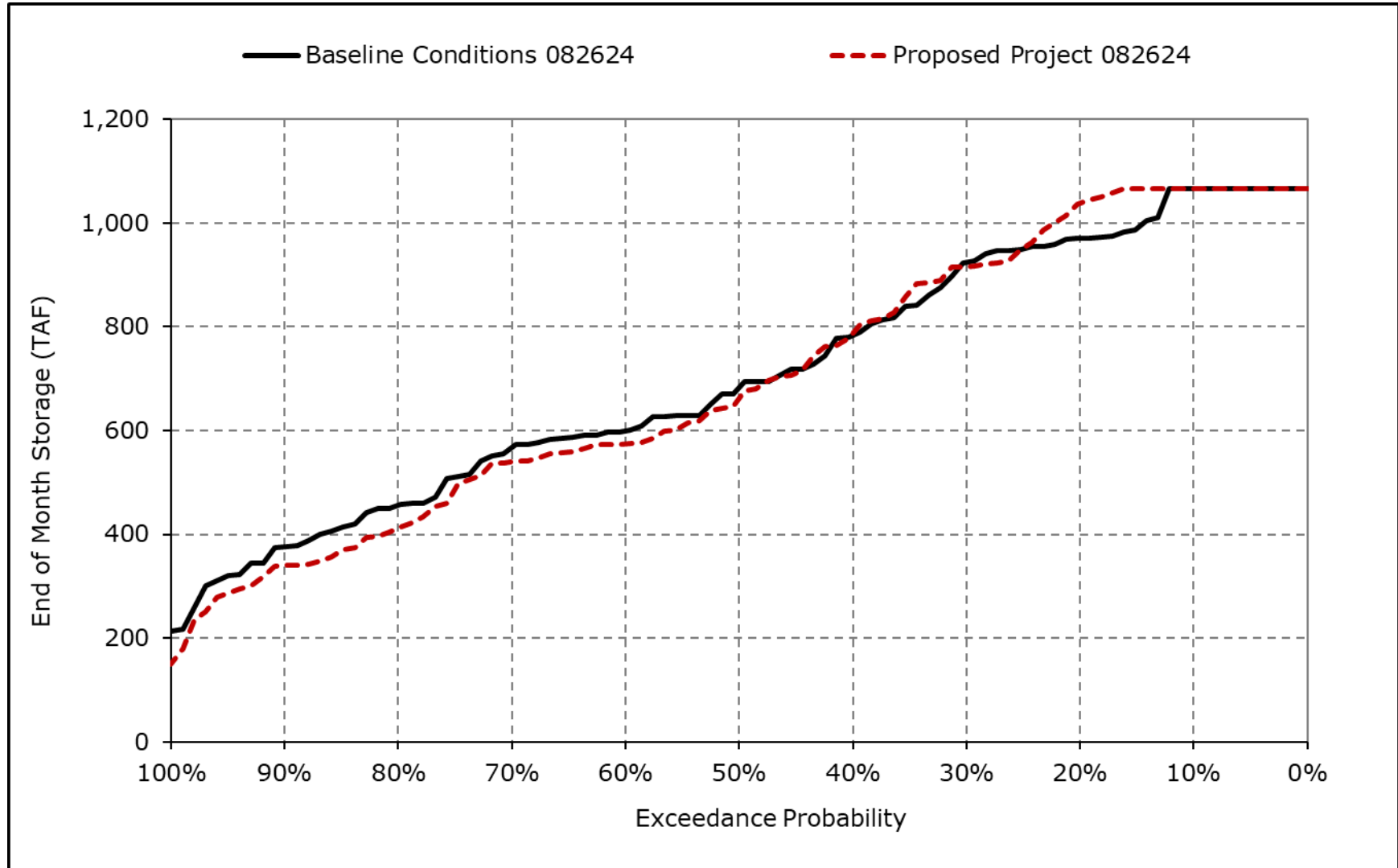
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



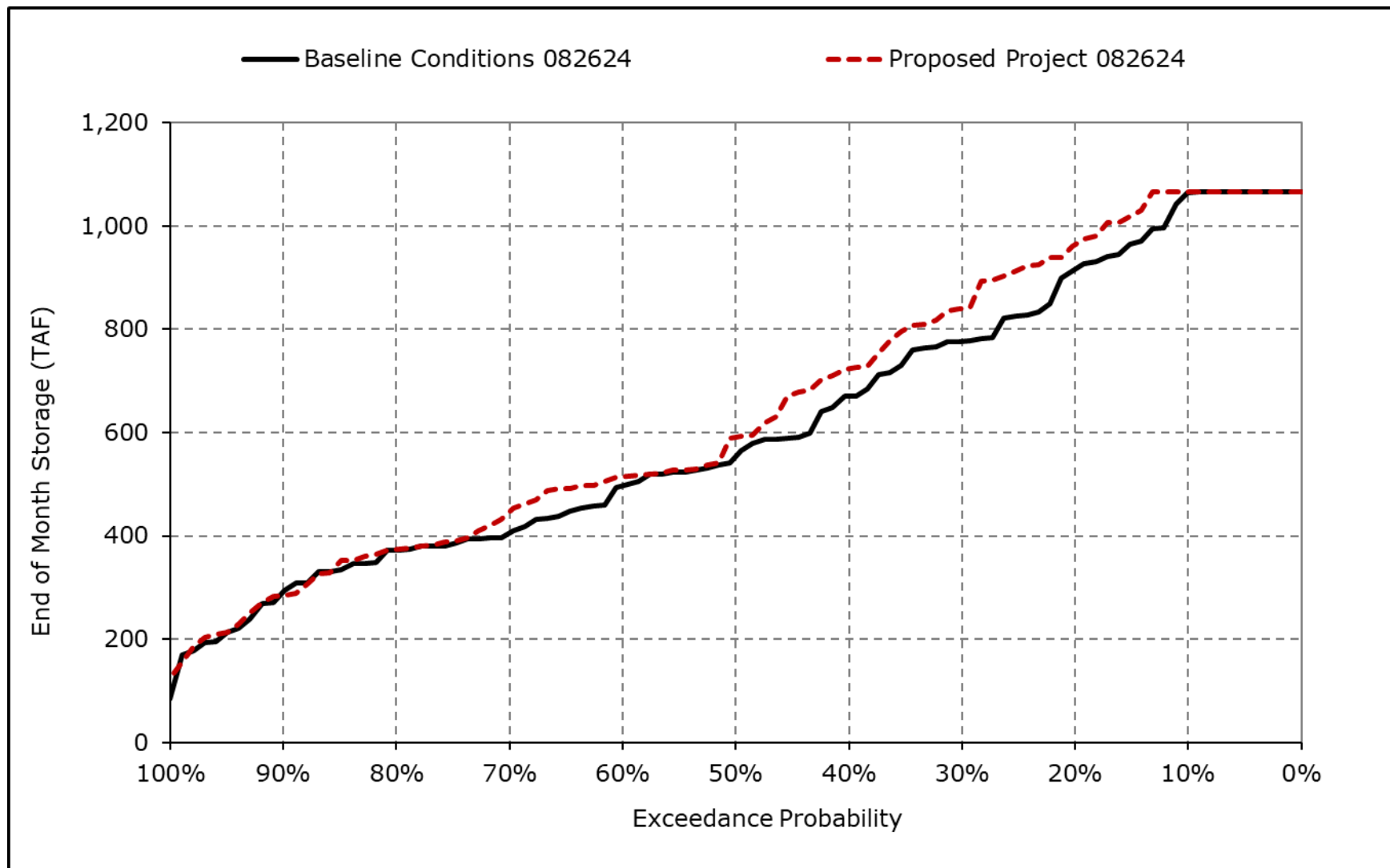
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



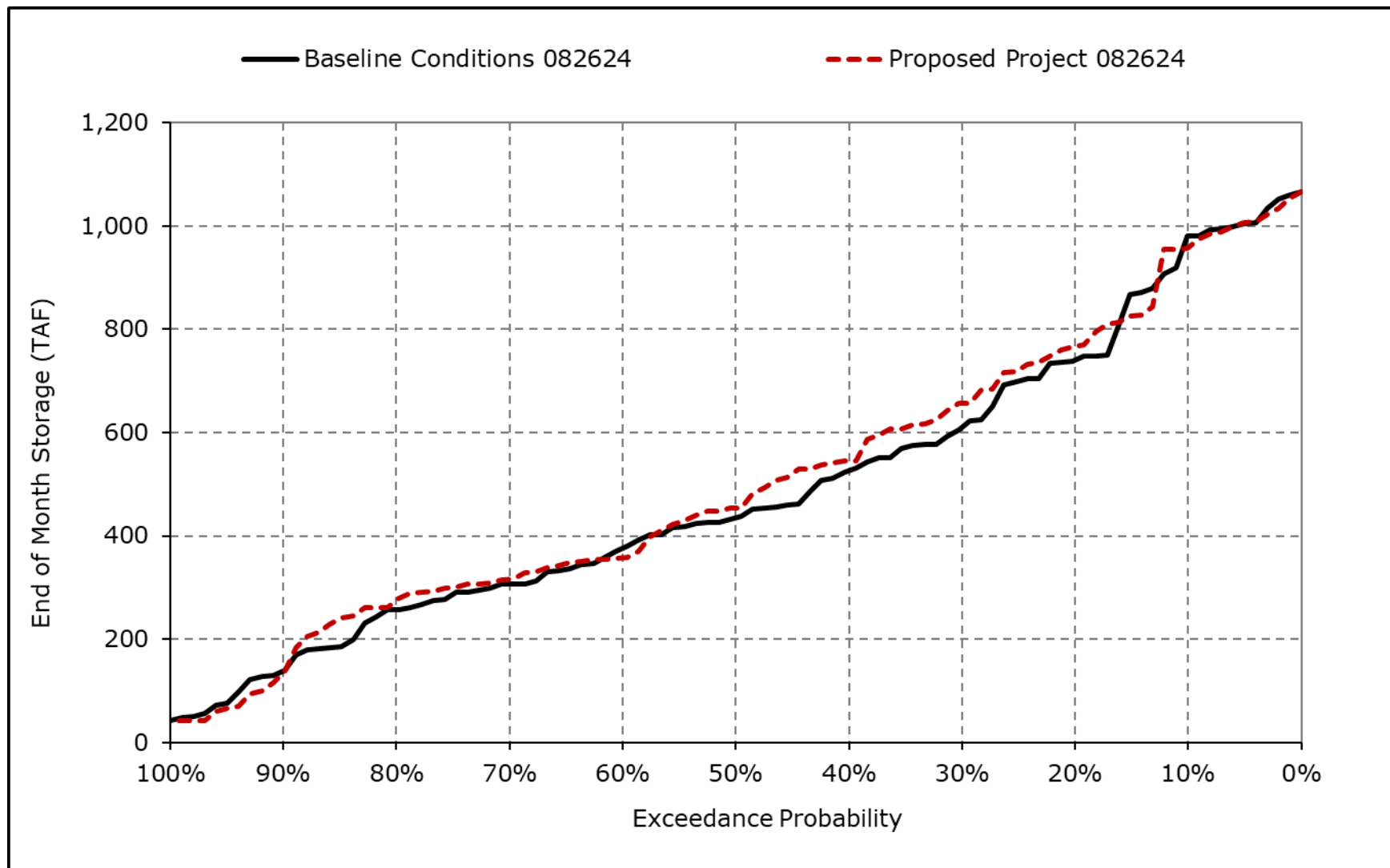
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



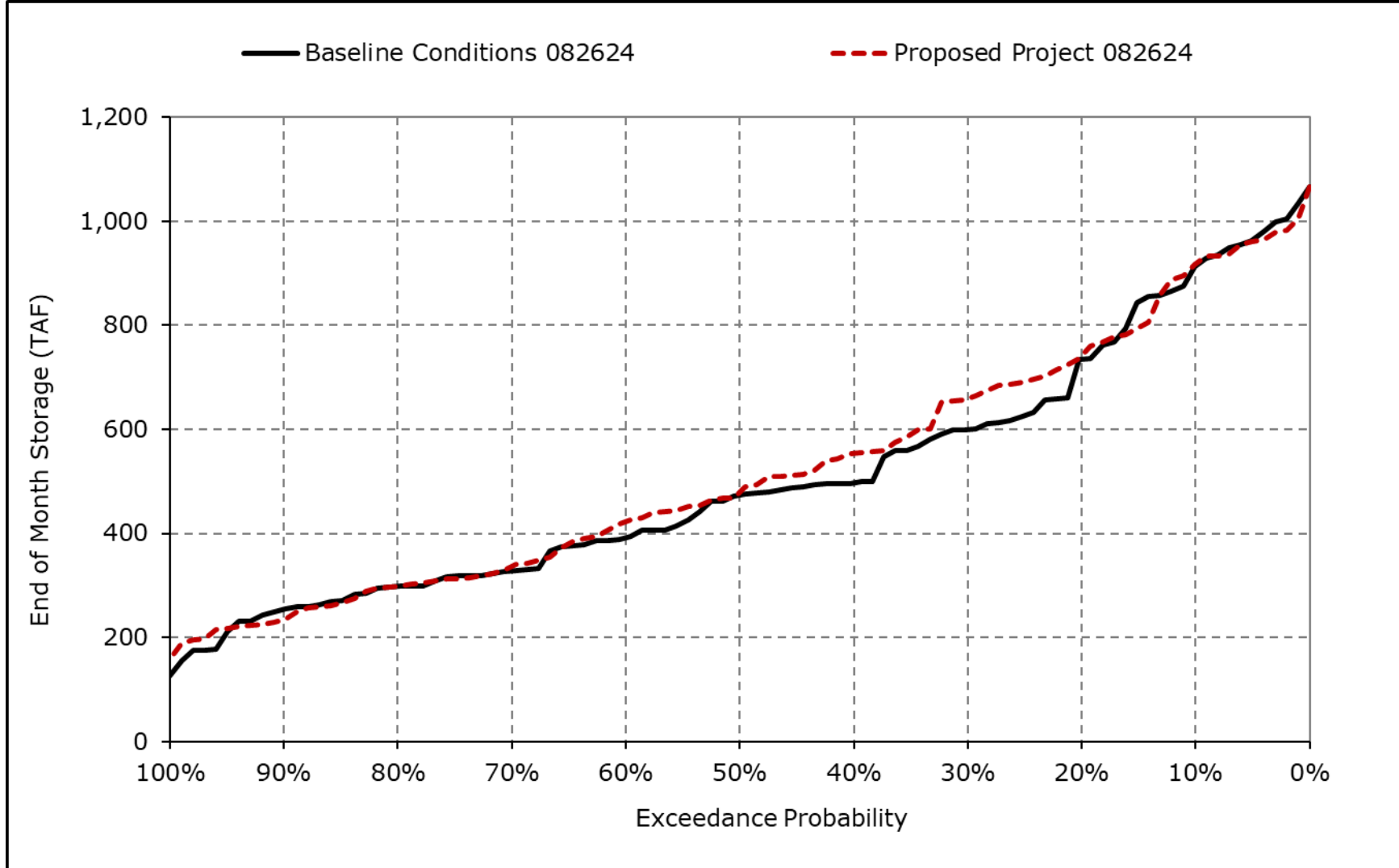
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



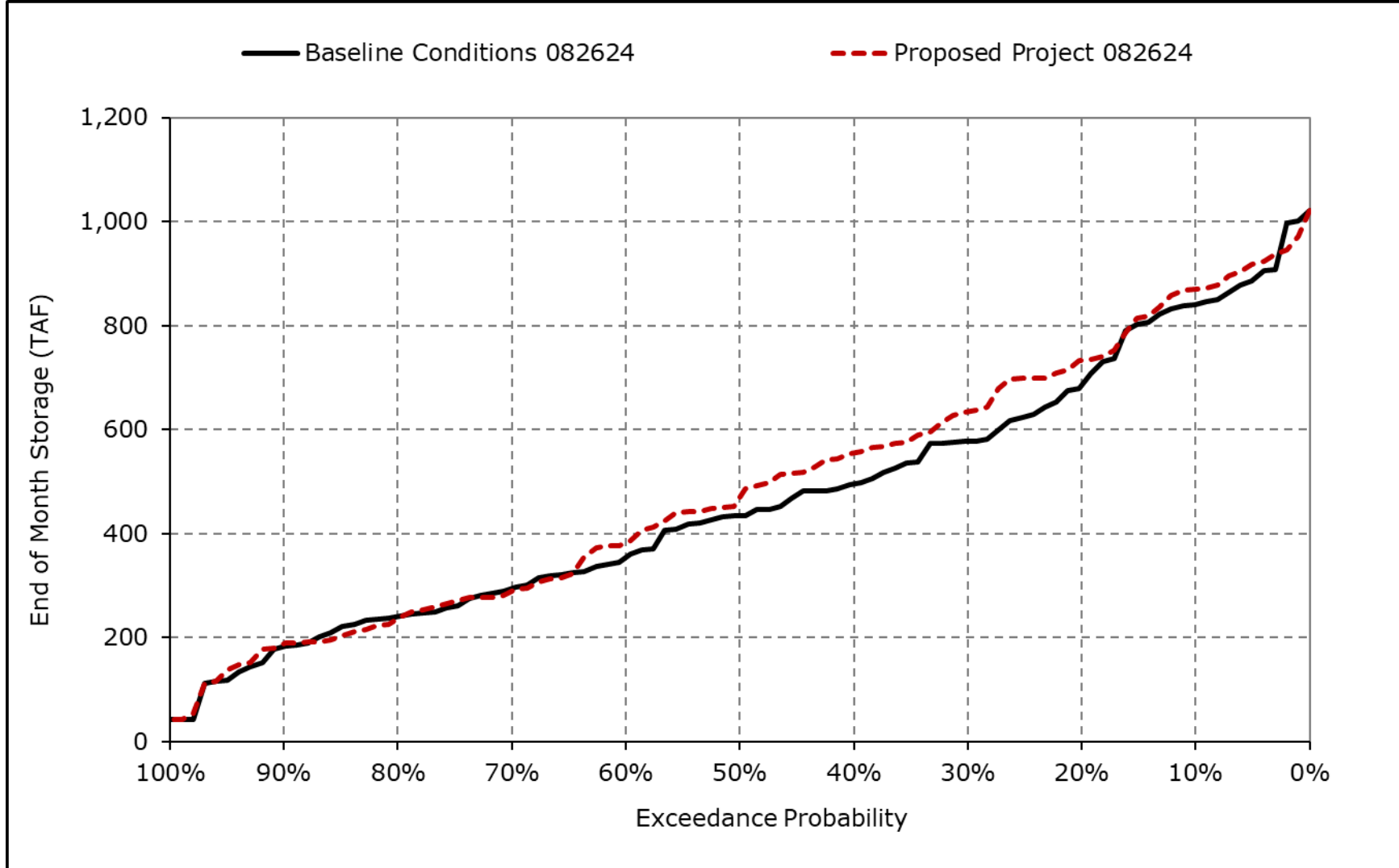
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



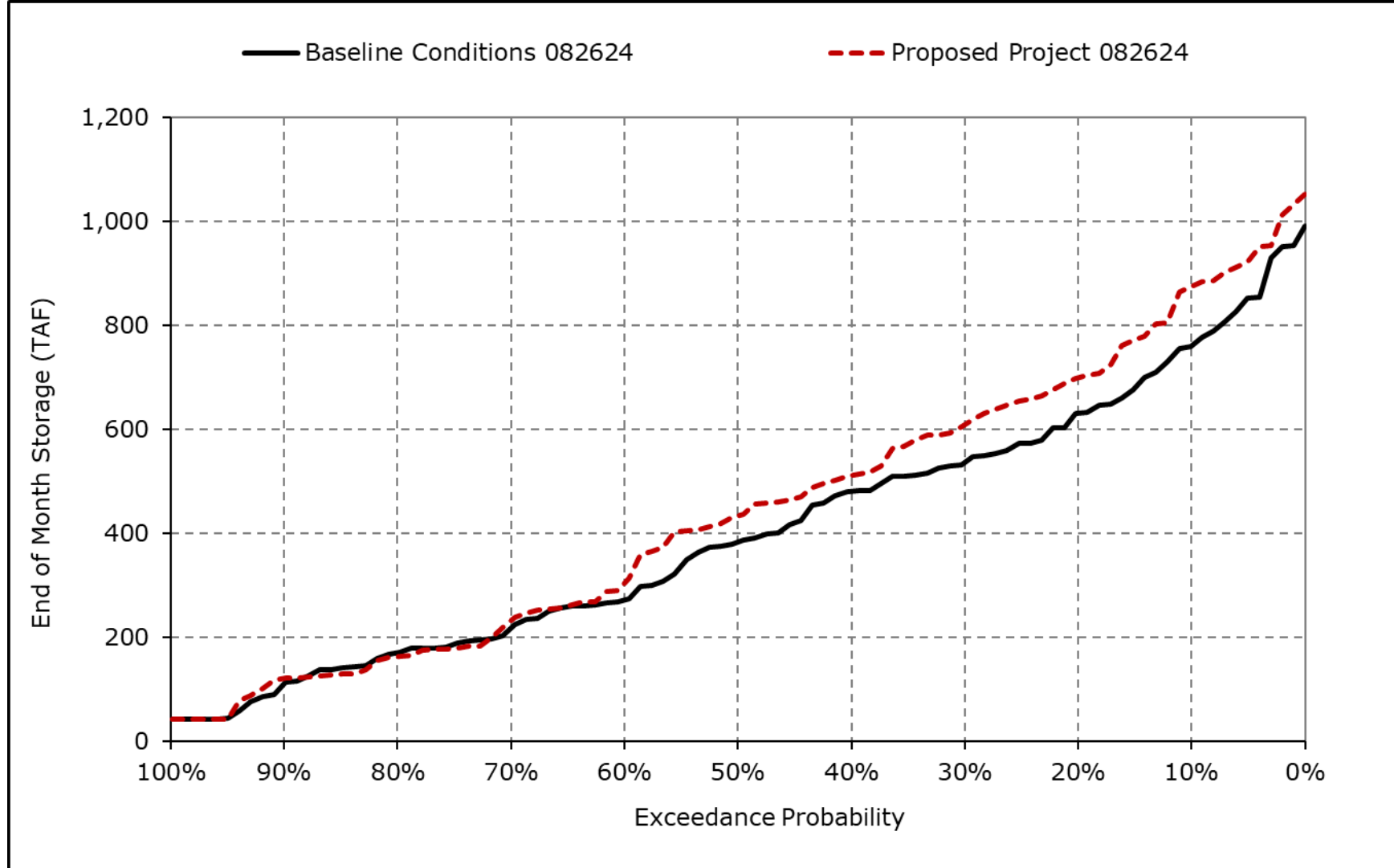
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

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



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

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



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

Table 4B-1-2-1a. 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 4B-1-2-1b. San Luis Storage (CVP and SWP), Proposed Project 082624, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	1,459	1,671	1,886	1,888	1,993	2,039	2,039	1,955	1,798	1,482	1,386	1,473
20% Exceedance	1,016	1,221	1,429	1,608	1,854	2,029	1,922	1,859	1,395	1,093	902	931
30% Exceedance	775	1,054	1,264	1,455	1,612	1,846	1,749	1,565	1,101	882	756	747
40% Exceedance	649	867	1,111	1,295	1,468	1,583	1,380	1,187	916	745	630	611
50% Exceedance	549	705	996	1,193	1,378	1,454	1,271	1,050	780	636	537	531
60% Exceedance	474	624	881	1,080	1,266	1,325	1,147	970	695	560	466	445
70% Exceedance	357	533	706	973	1,169	1,251	1,083	853	573	500	370	356
80% Exceedance	313	412	639	851	1,069	1,166	963	760	505	437	317	299
90% Exceedance	227	324	471	637	835	928	801	646	369	367	264	238
Full Simulation Period Average ^a	676	852	1,050	1,223	1,396	1,492	1,365	1,208	920	777	650	647
Wet Water Years (32%)	729	960	1,201	1,447	1,691	1,814	1,795	1,693	1,371	1,163	1,047	1,073
Above Normal Water Years (9%)	692	916	1,220	1,415	1,617	1,720	1,564	1,387	964	785	714	632
Below Normal Water Years (20%)	795	989	1,143	1,272	1,419	1,489	1,241	998	648	586	551	559
Dry Water Years (21%)	667	817	977	1,102	1,183	1,270	1,058	833	591	523	305	292
Critical Water Years (18%)	454	518	680	815	983	1,066	996	926	781	595	422	409

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

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	62	76	103	58	19	0	0	18	-30	-45	19	86
20% Exceedance	26	23	15	25	-6	-8	68	49	-7	-13	-22	72
30% Exceedance	50	55	3	15	-45	-18	17	84	32	34	87	73
40% Exceedance	14	29	21	-11	-9	-30	-52	17	21	15	43	41
50% Exceedance	37	2	16	15	19	-31	3	9	-26	1	16	20
60% Exceedance	20	47	39	-3	-3	-60	-62	-3	0	-8	23	29
70% Exceedance	8	17	-1	11	-42	-59	-24	6	4	-2	-10	-2
80% Exceedance	8	-33	16	-12	-77	-32	-58	15	-13	-5	-13	-3
90% Exceedance	6	13	-13	11	-19	-60	-50	-19	-33	-20	5	11
Full Simulation Period Average ^a	28	25	19	8	-17	-34	-22	19	-9	-1	16	34
Wet Water Years (32%)	32	27	16	1	-10	-10	6	50	5	4	20	75
Above Normal Water Years (9%)	16	13	24	7	-19	-28	-18	38	-14	7	31	66
Below Normal Water Years (20%)	32	28	26	13	-17	-58	-31	43	15	20	42	25
Dry Water Years (21%)	36	37	15	10	-26	-58	-62	-36	-59	-33	-10	-10
Critical Water Years (18%)	14	11	16	10	-15	-23	-18	-5	1	2	5	4

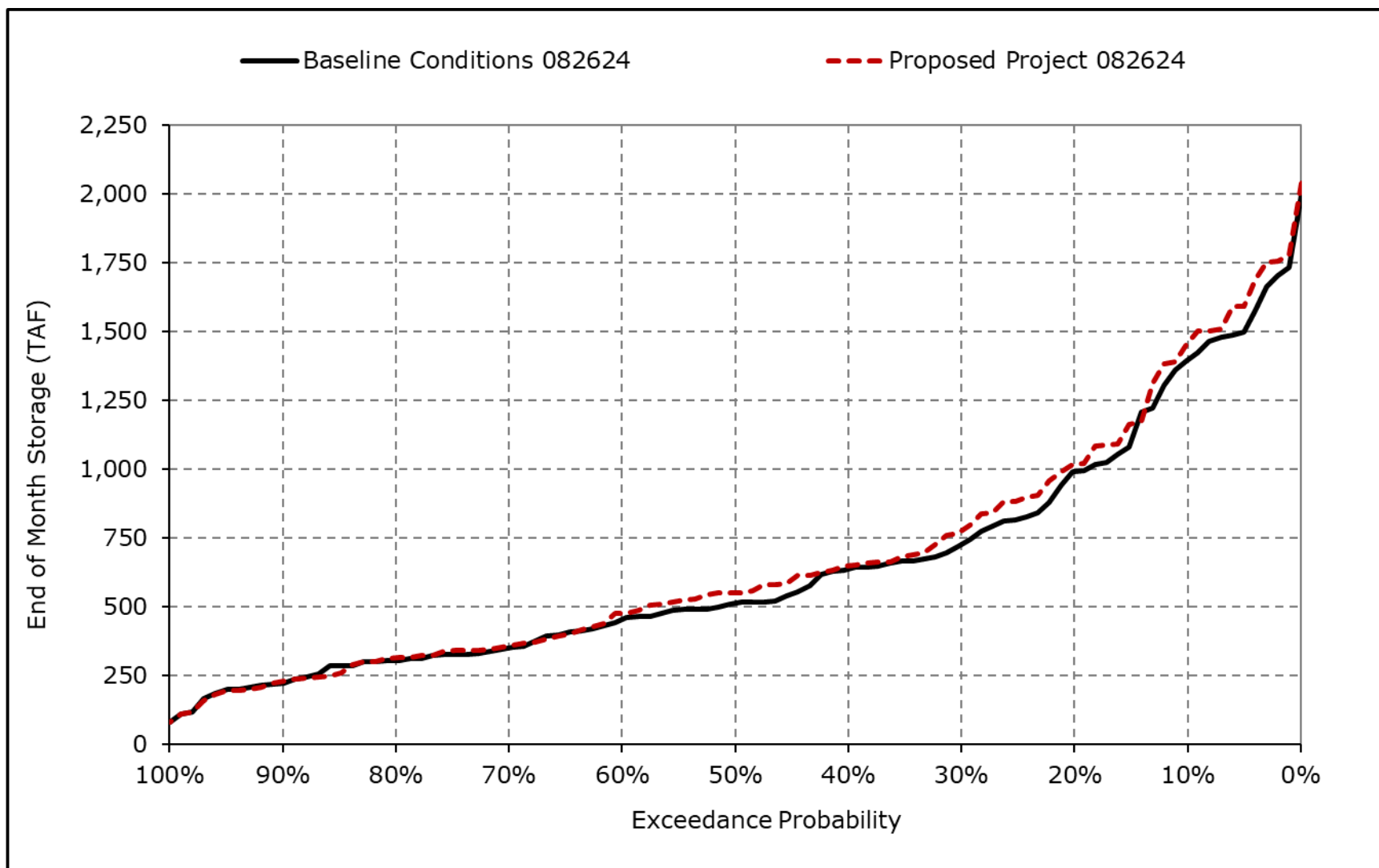
^a Based on the 100-year simulation period.

* 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).

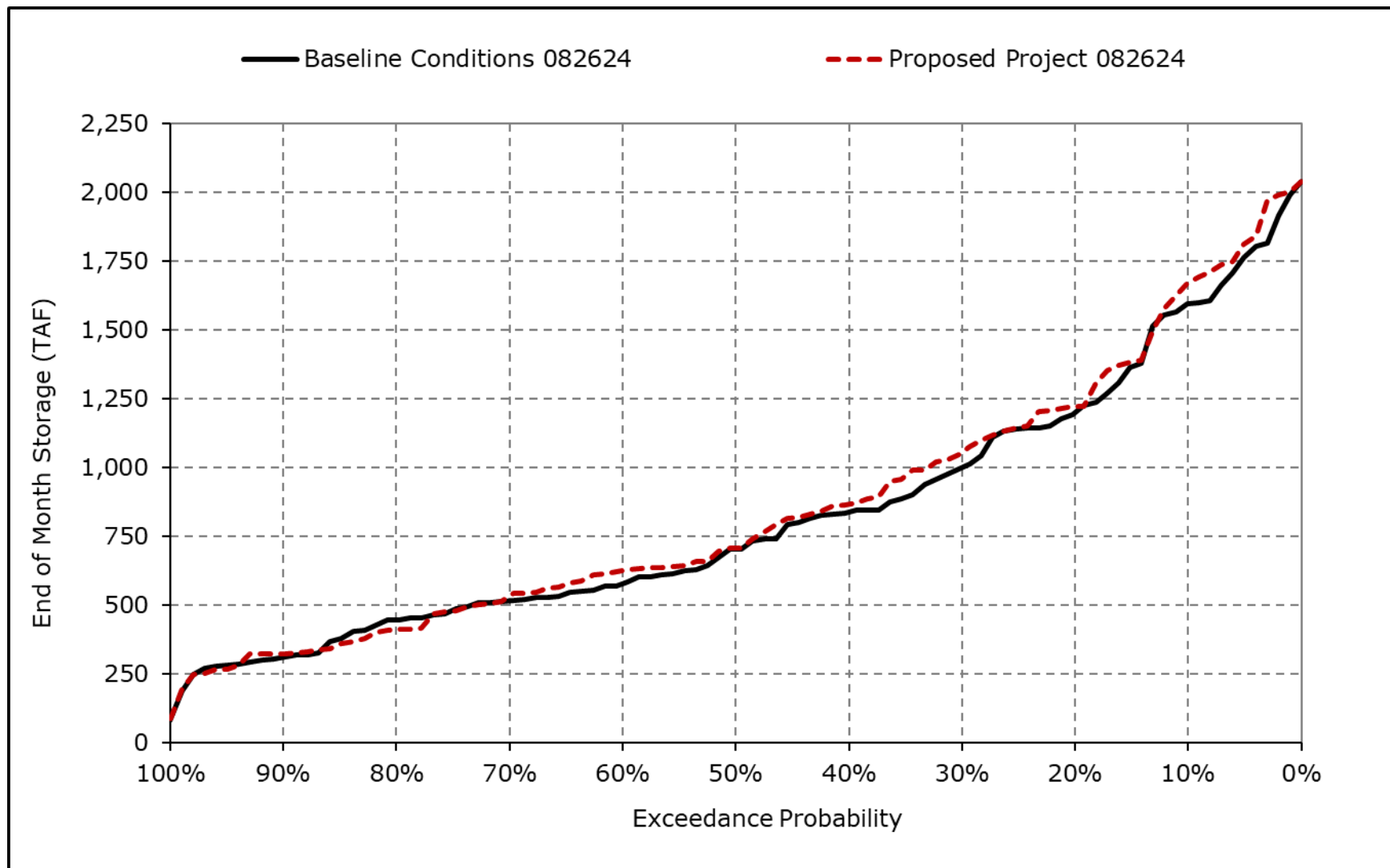
* Water Year Types results are displayed with water year - year type sorting.

Figure 4B-1-2a. San Luis Storage (CVP and SWP), October



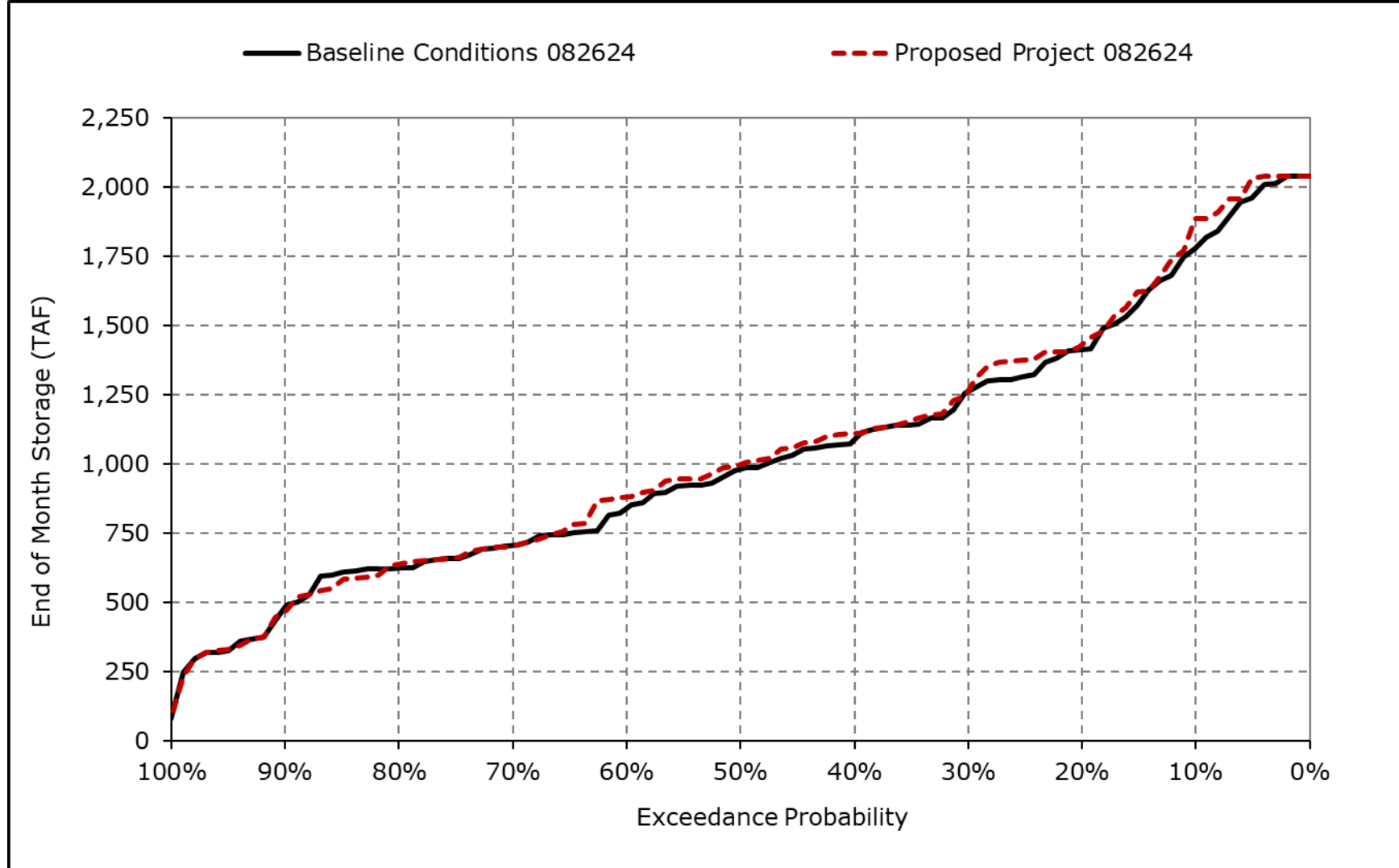
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2b. San Luis Storage (CVP and SWP), November



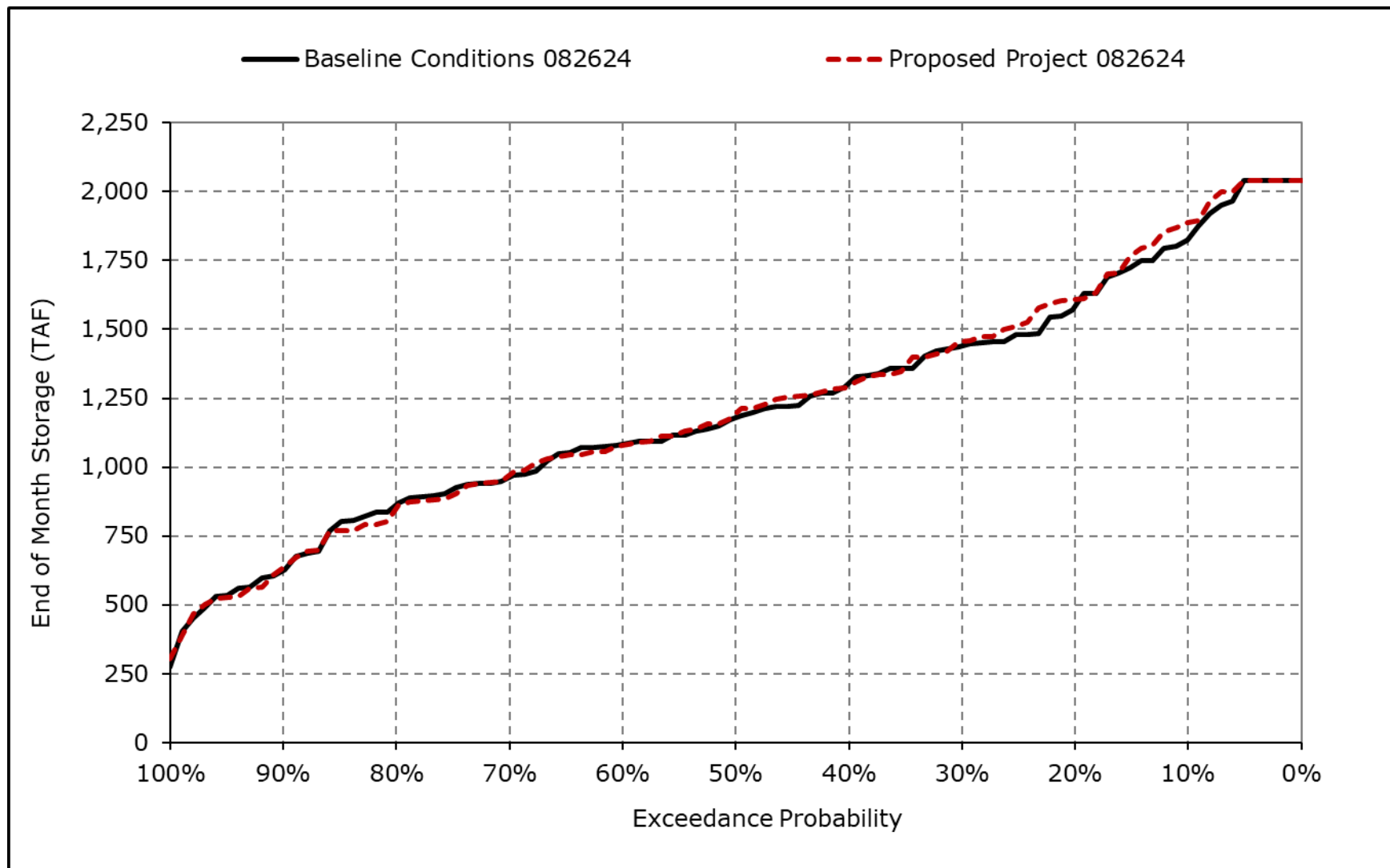
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2c. San Luis Storage (CVP and SWP), December



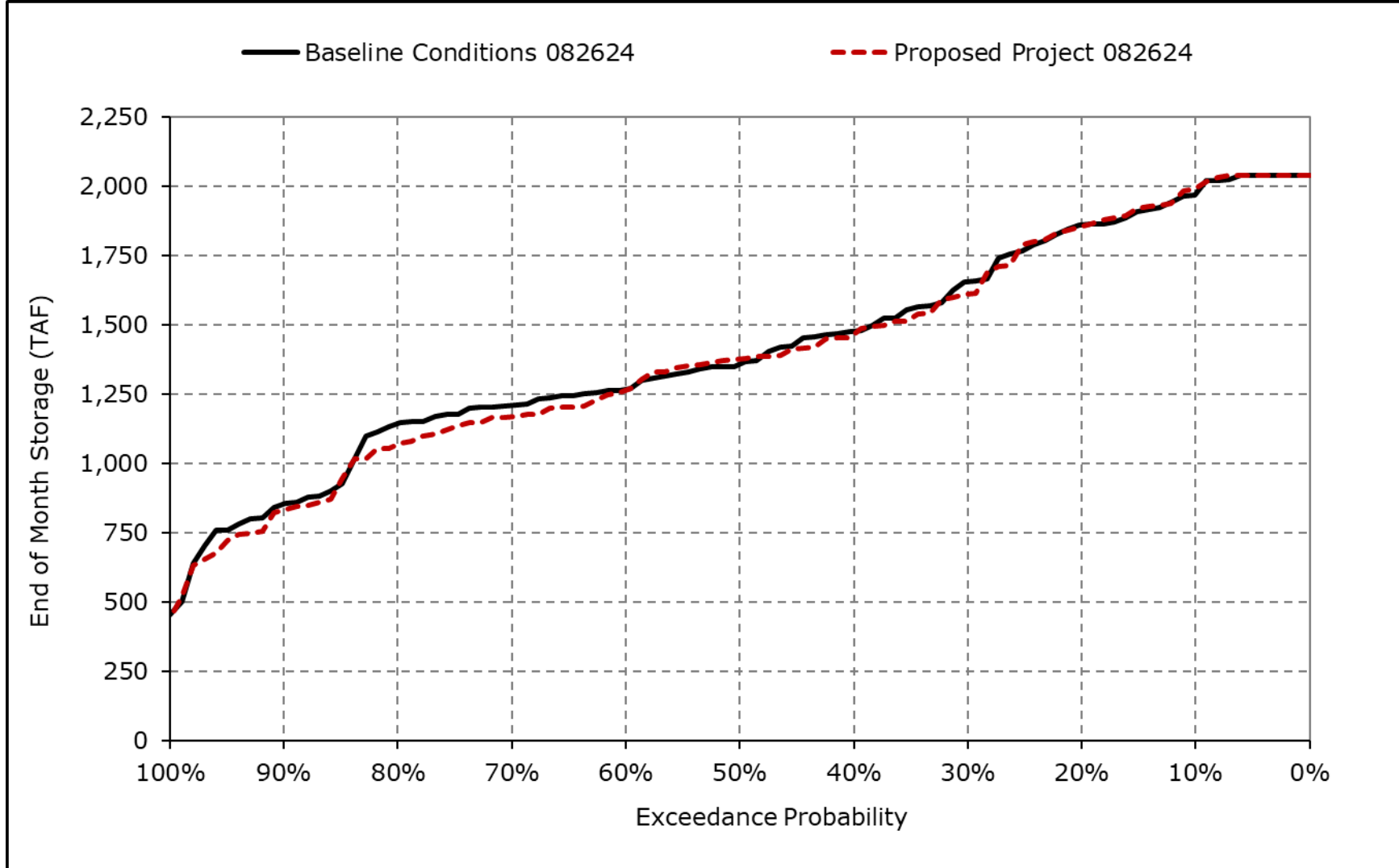
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2d. San Luis Storage (CVP and SWP), January



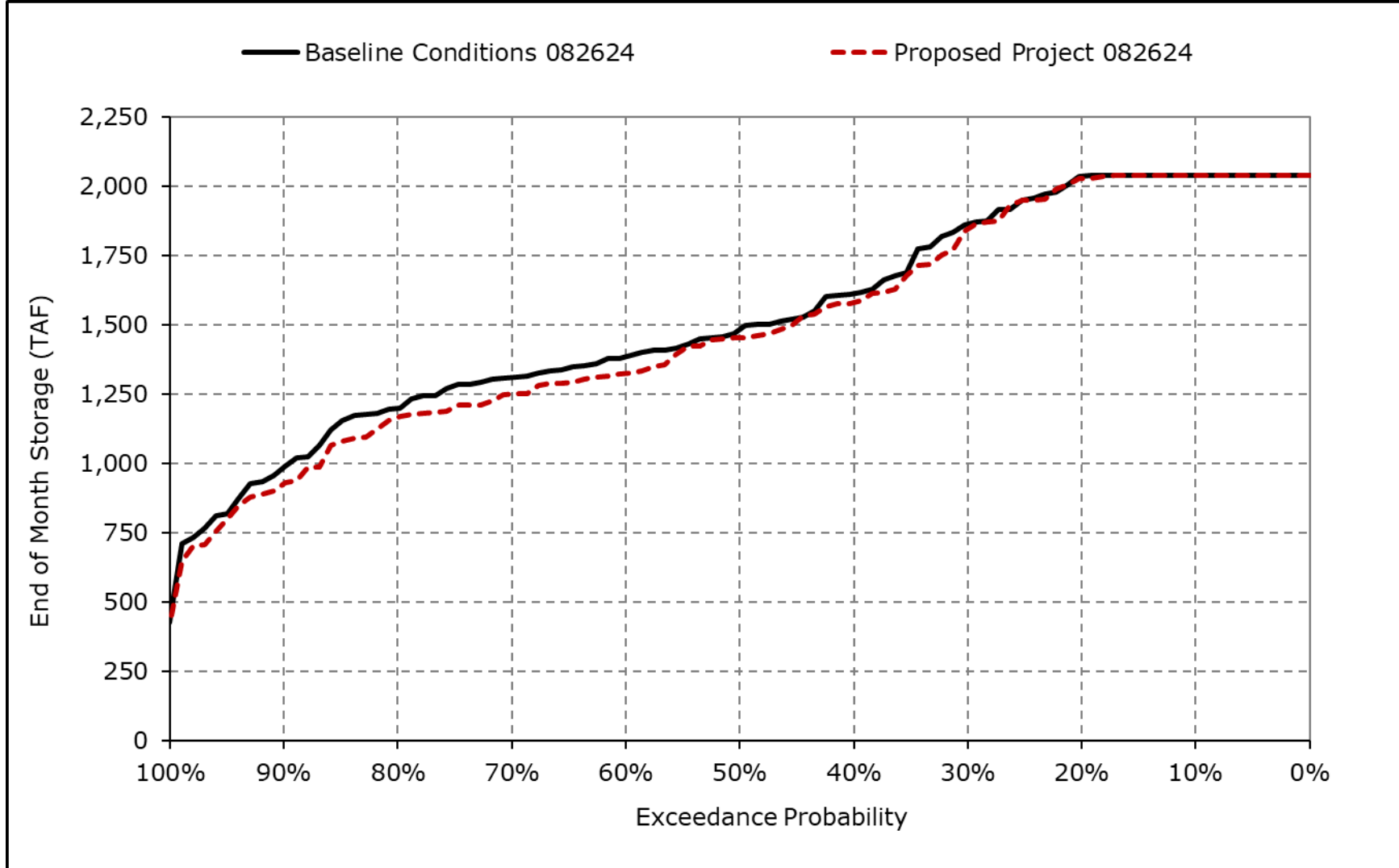
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2e. San Luis Storage (CVP and SWP), February



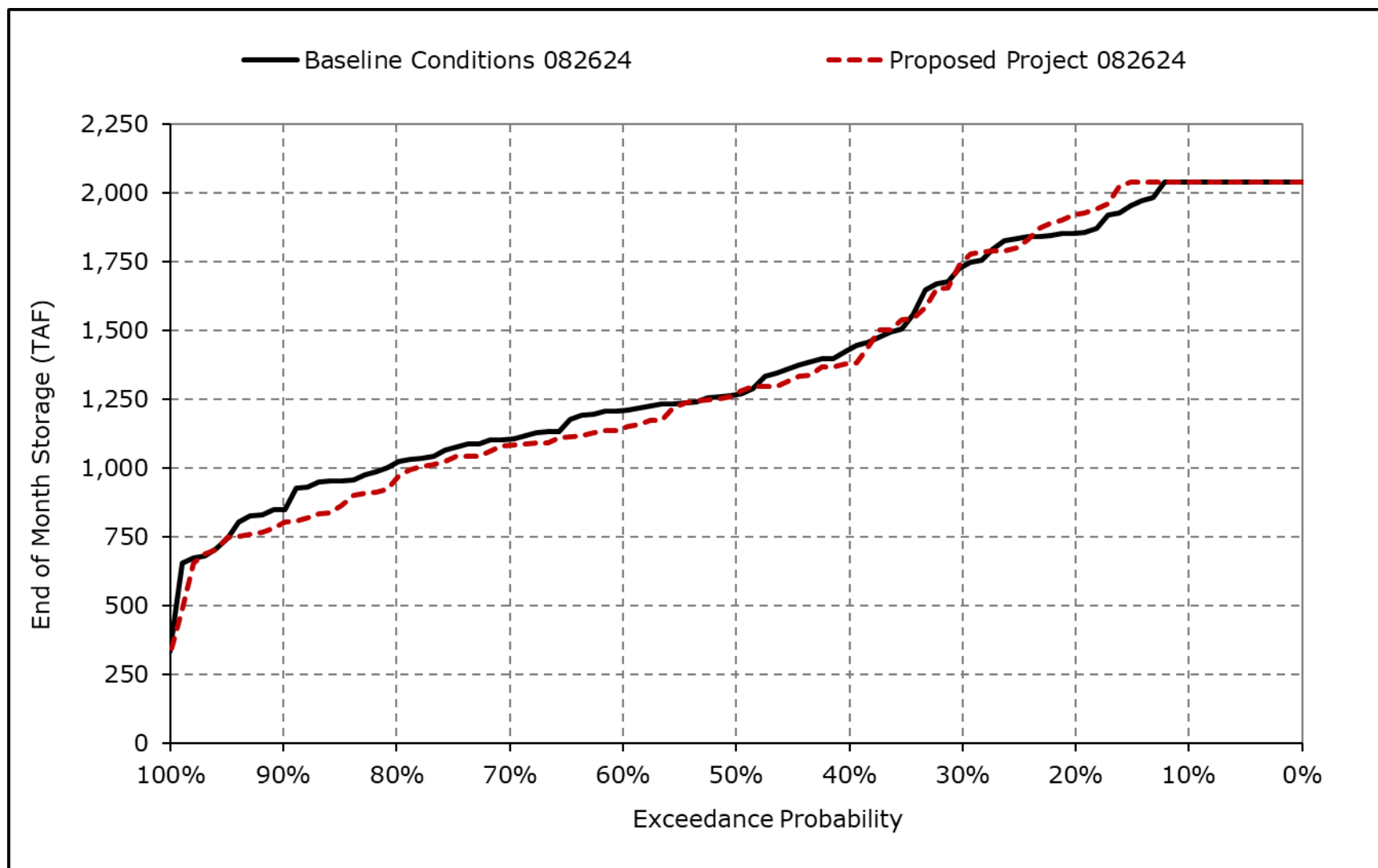
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2f. San Luis Storage (CVP and SWP), March



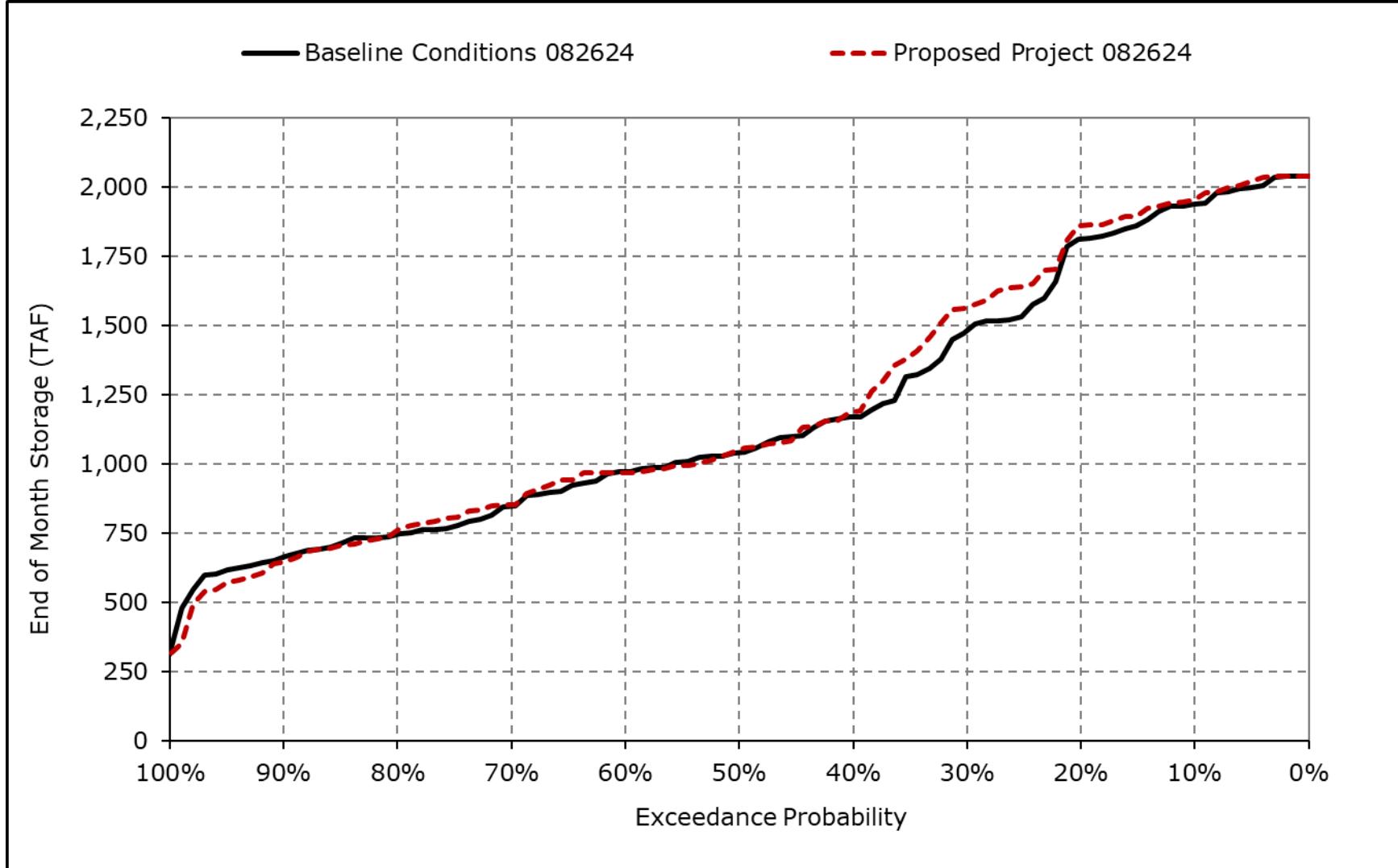
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2g. San Luis Storage (CVP and SWP), April



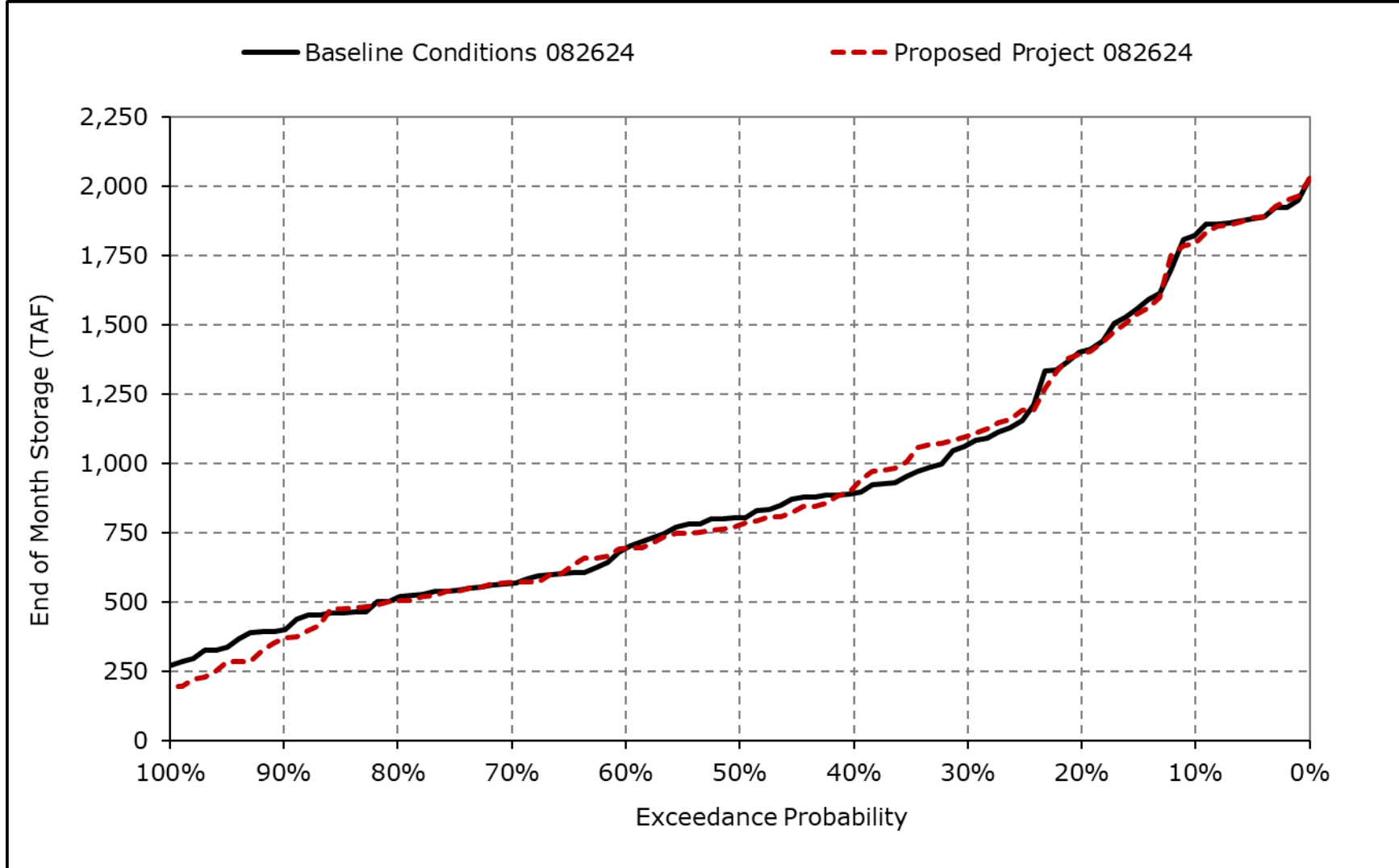
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2h. San Luis Storage (CVP and SWP), May



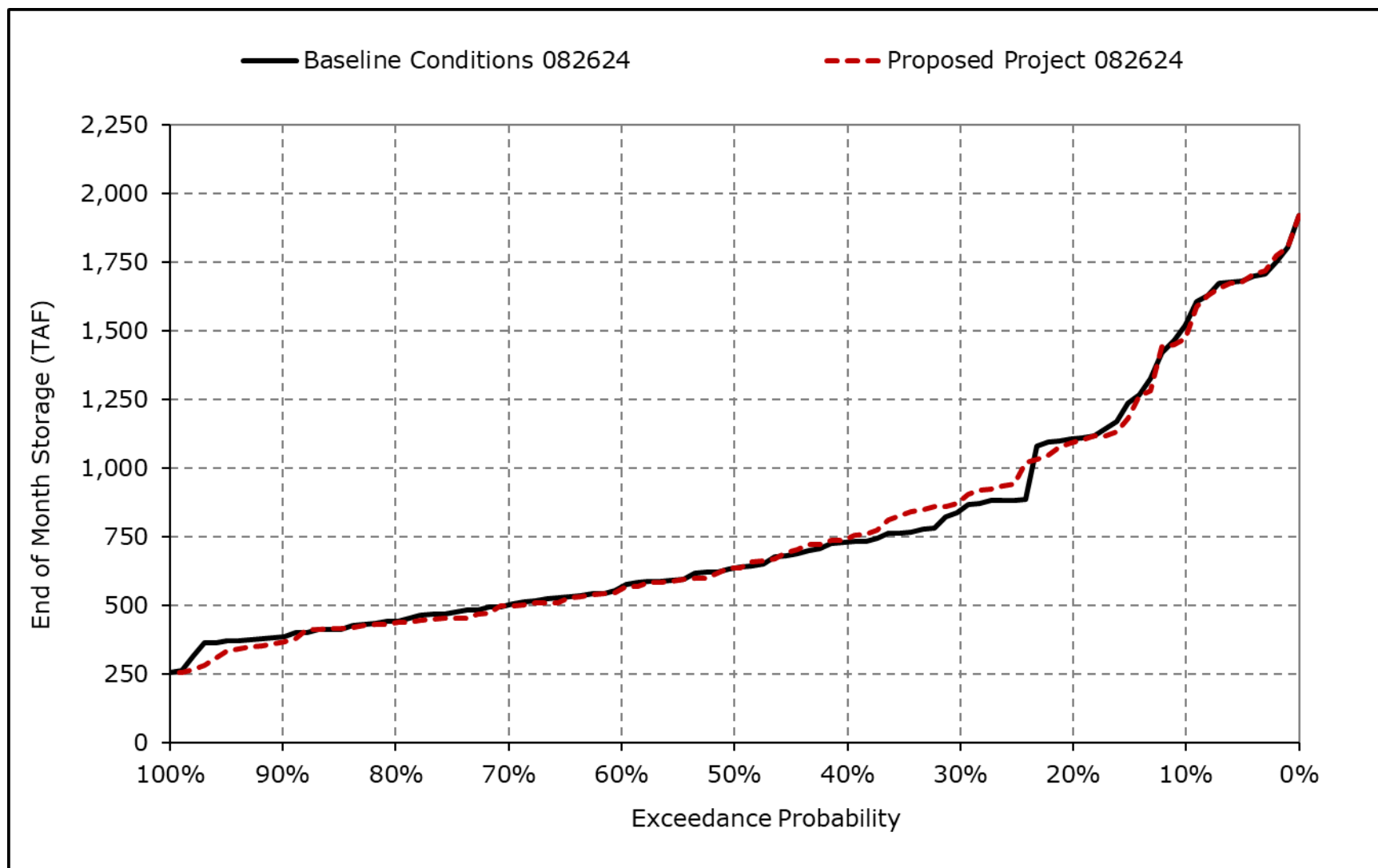
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2i. San Luis Storage (CVP and SWP), June



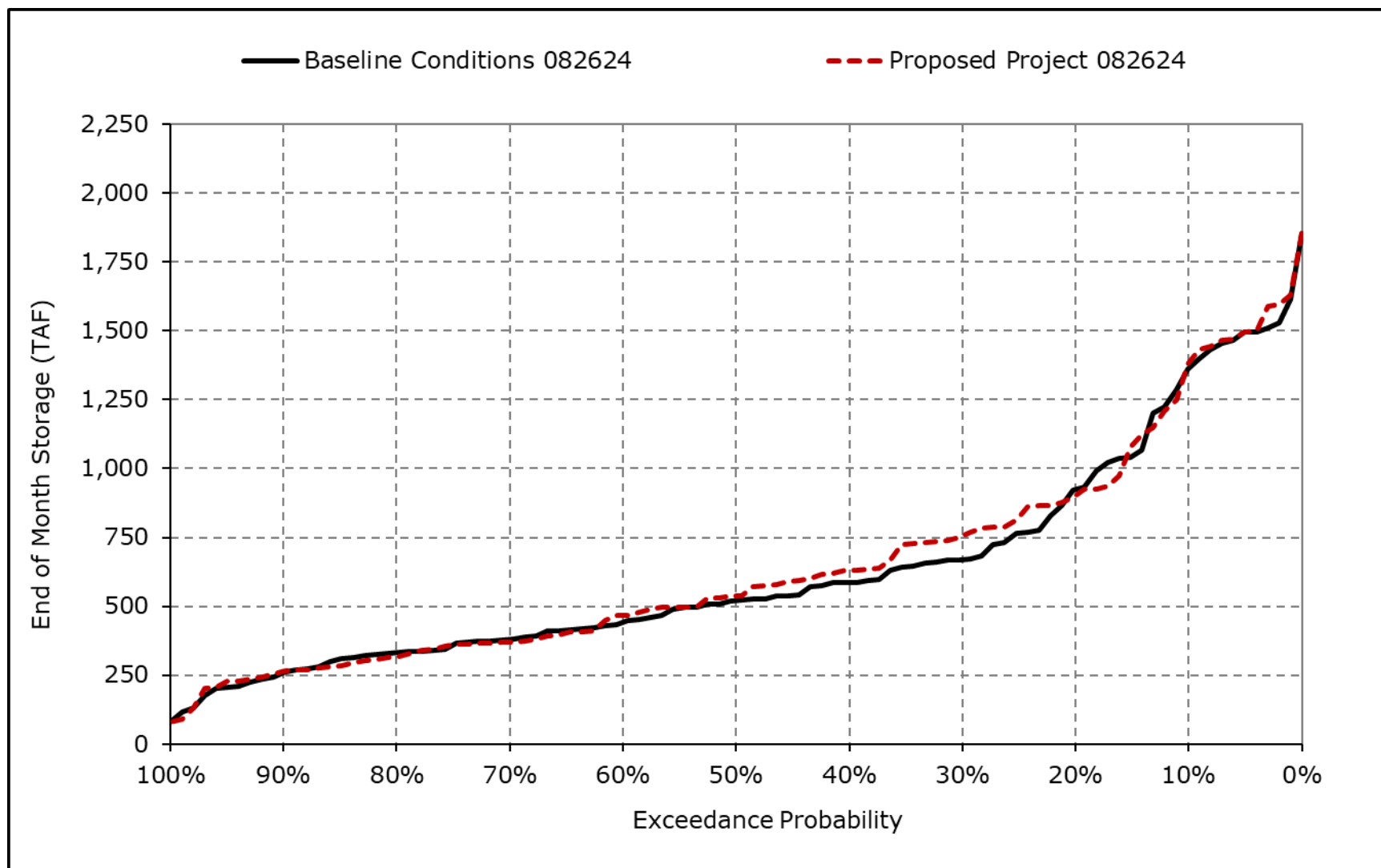
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2j. San Luis Storage (CVP and SWP), July



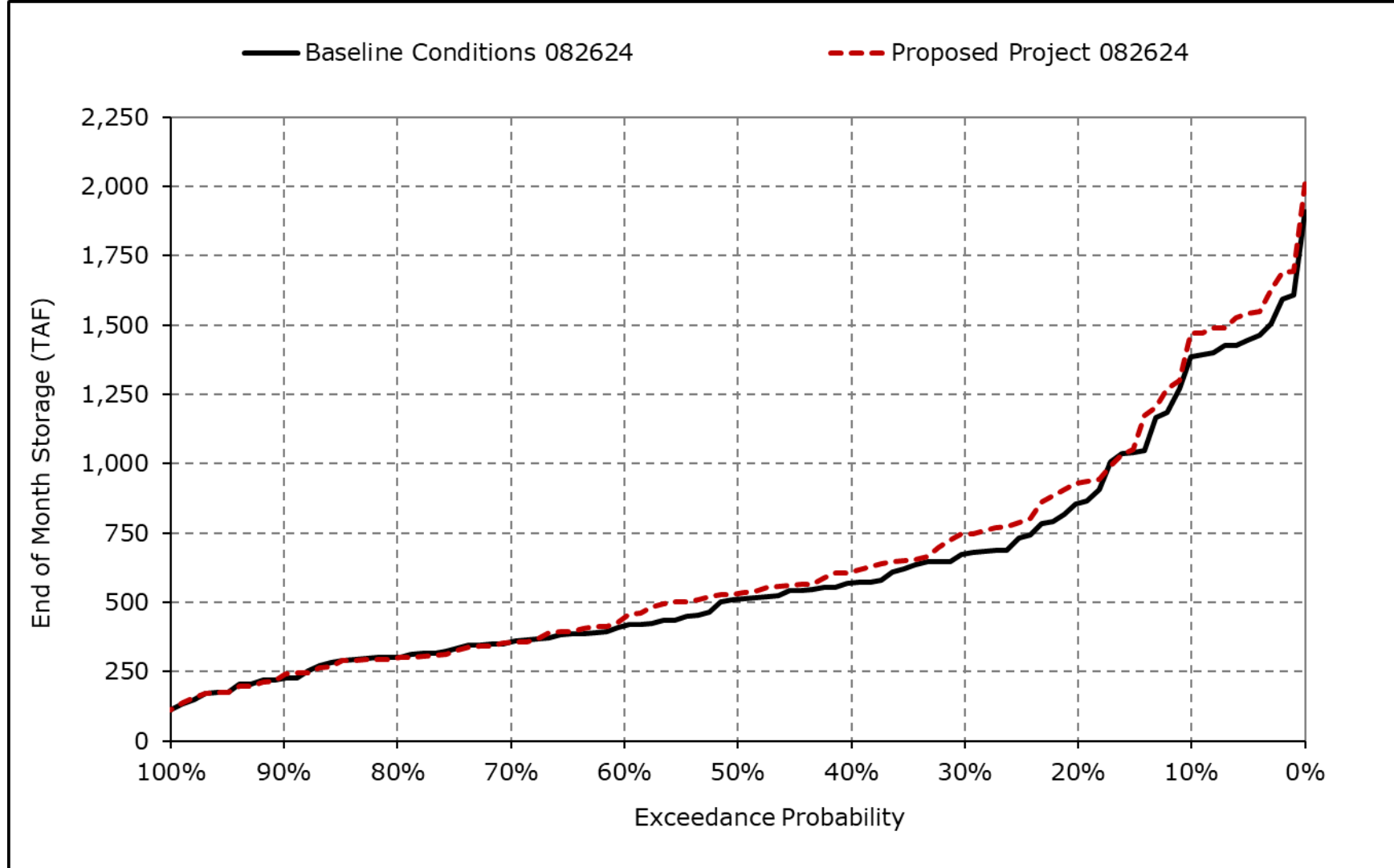
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-2k. San Luis Storage (CVP and SWP), August



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

Figure 4B-1-2I. San Luis Storage (CVP and SWP), September



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

Table 4B-1-3-1a. 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 4B-1-3-1b. San Luis Reservoir (SWP and CVP), Proposed Project 082624, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	496	514	532	532	540	544	544	537	524	498	489	497
20% Exceedance	454	474	493	508	529	543	535	529	490	462	443	446
30% Exceedance	429	458	478	495	509	528	520	505	462	440	427	426
40% Exceedance	415	439	463	481	496	506	489	470	444	426	413	410
50% Exceedance	403	421	452	471	488	495	478	457	430	413	402	401
60% Exceedance	393	412	440	460	478	483	467	450	420	404	392	389
70% Exceedance	377	401	421	450	469	476	461	437	406	397	379	377
80% Exceedance	371	385	414	437	459	468	449	428	398	388	371	369
90% Exceedance	355	372	393	413	435	445	432	414	379	378	362	357
Full Simulation Period Average ^a	412	432	453	471	488	497	485	469	440	425	410	409
Wet Water Years (32%)	415	442	468	492	514	525	523	514	484	465	455	457
Above Normal Water Years (9%)	416	440	472	491	508	517	503	487	446	428	421	412
Below Normal Water Years (20%)	426	448	463	477	491	497	475	451	411	405	400	401
Dry Water Years (21%)	413	429	447	461	469	478	457	434	406	399	368	366
Critical Water Years (18%)	387	396	415	431	449	457	450	443	428	407	384	382

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

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

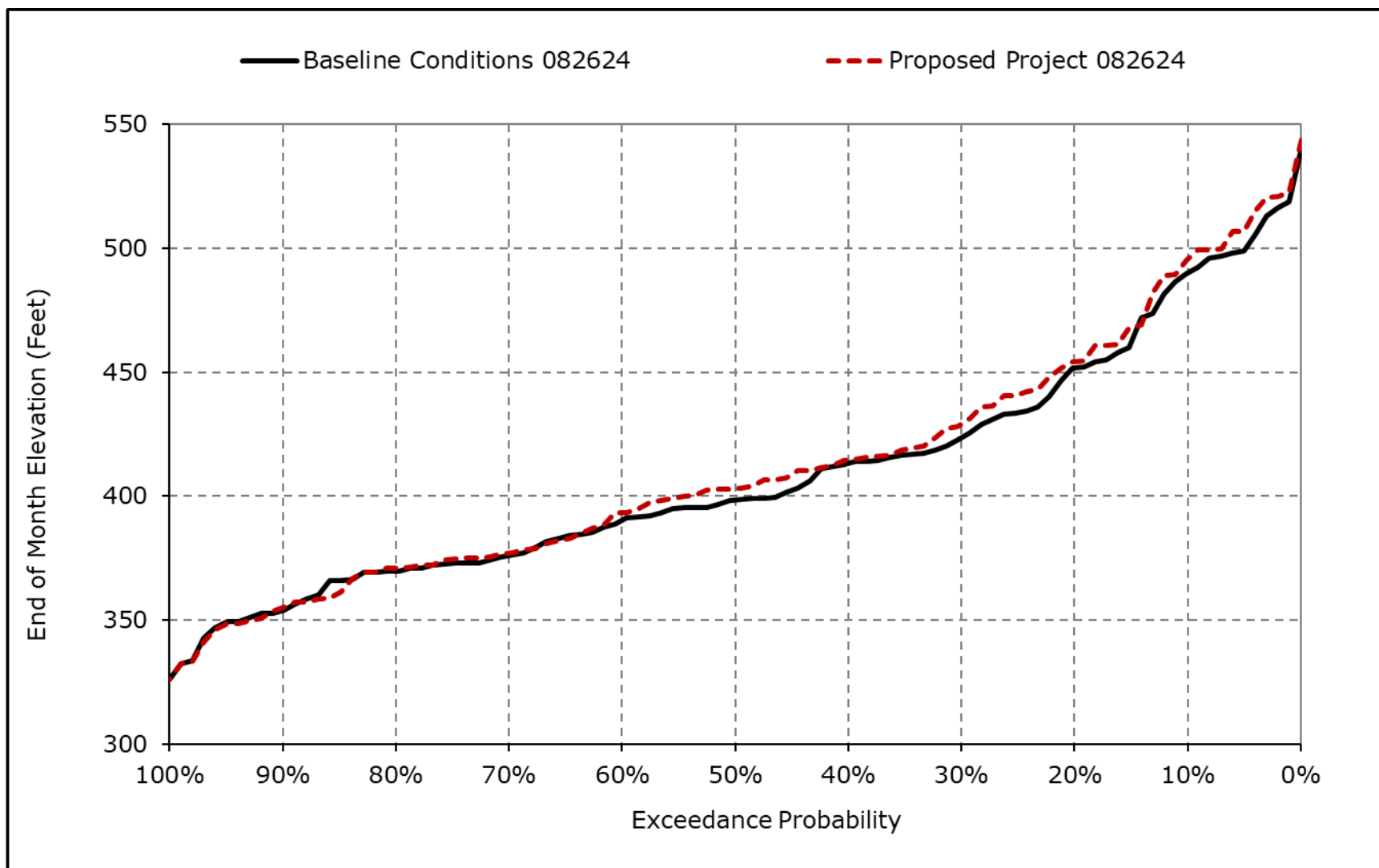
^a Based on the 100-year simulation period.

* 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).

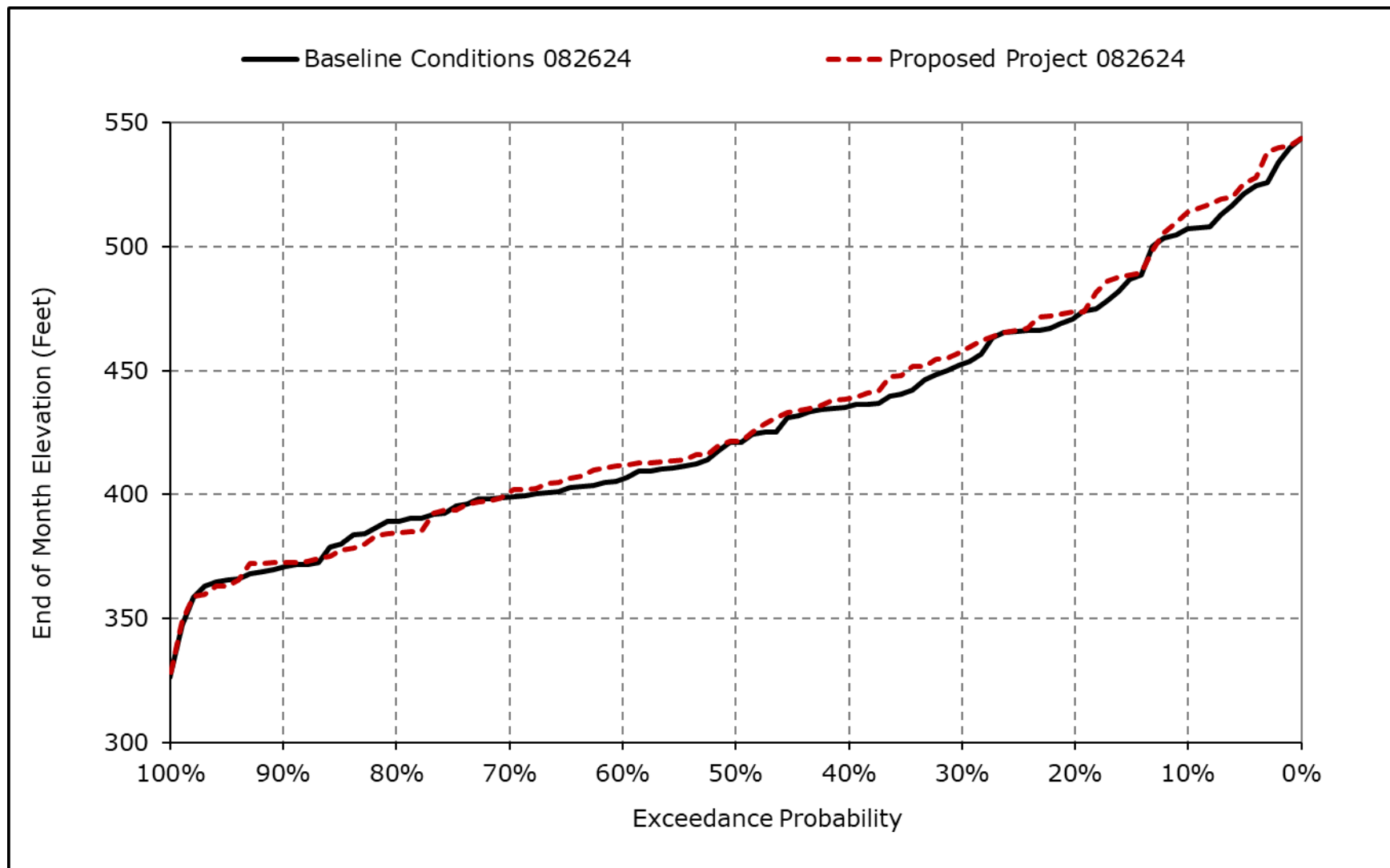
* Water Year Types results are displayed with water year - year type sorting.

Figure 4B-1-3a. San Luis Reservoir (SWP and CVP), October



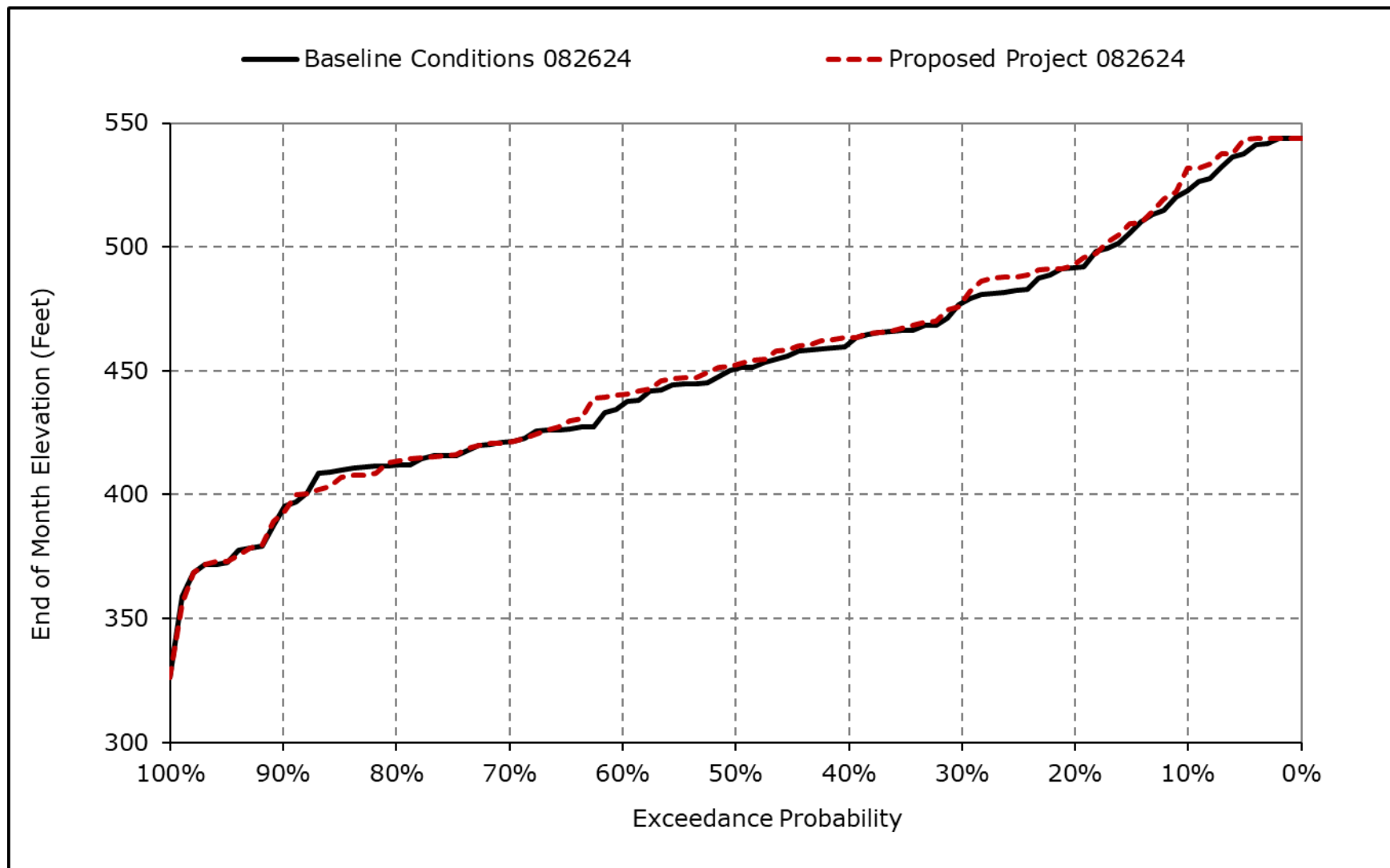
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3b. San Luis Reservoir (SWP and CVP), November



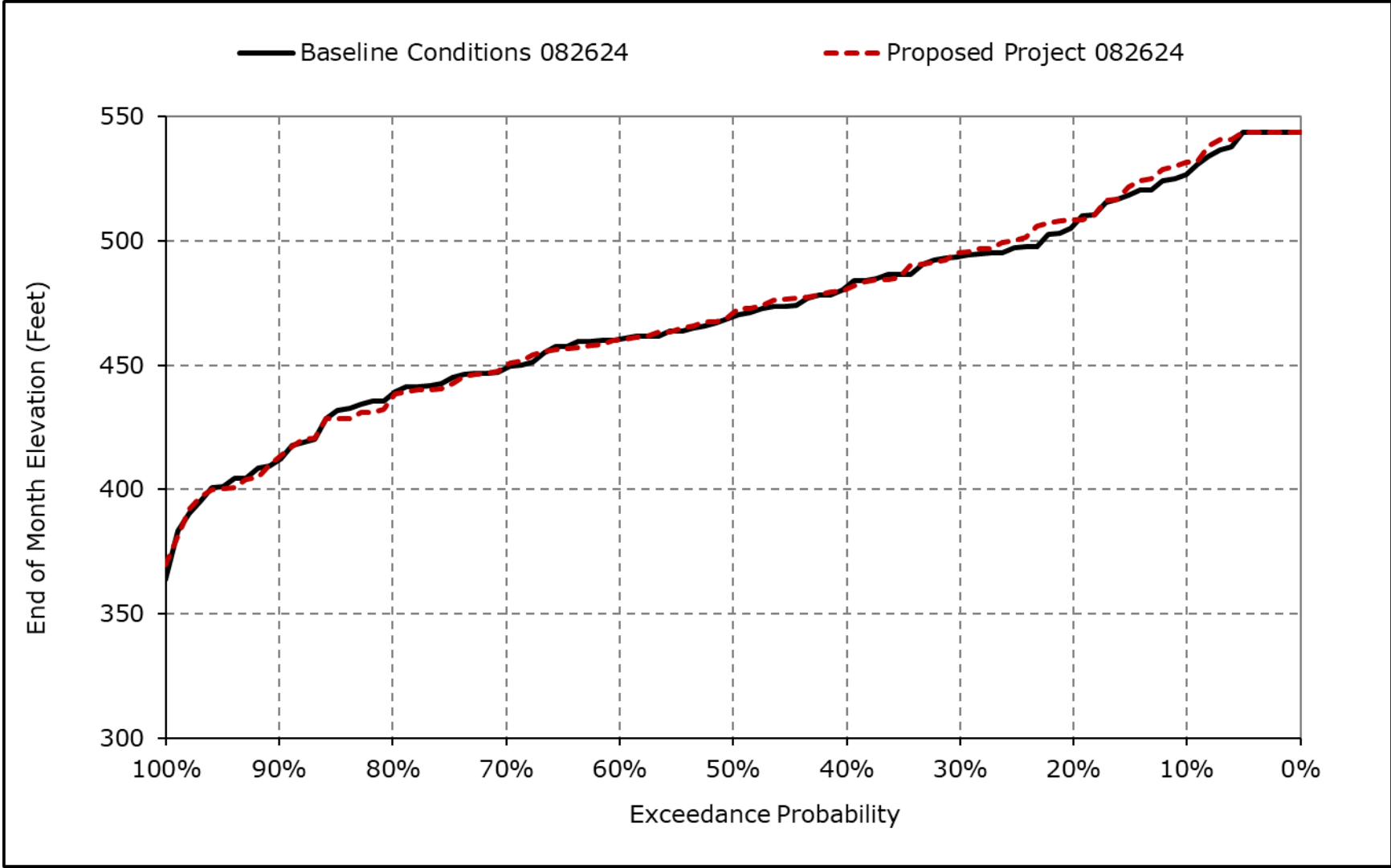
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3c. San Luis Reservoir (SWP and CVP), December



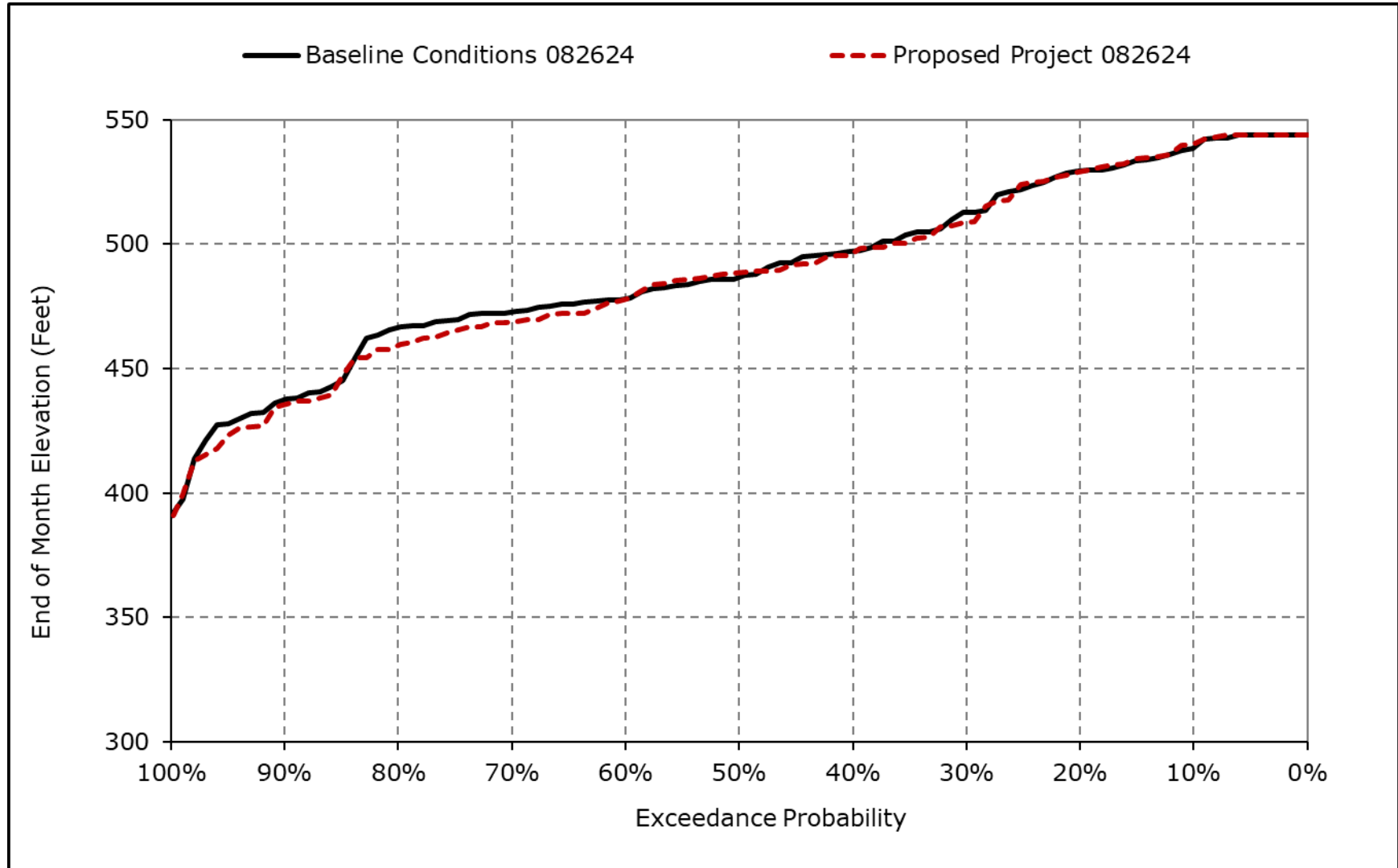
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3d. San Luis Reservoir (SWP and CVP), January



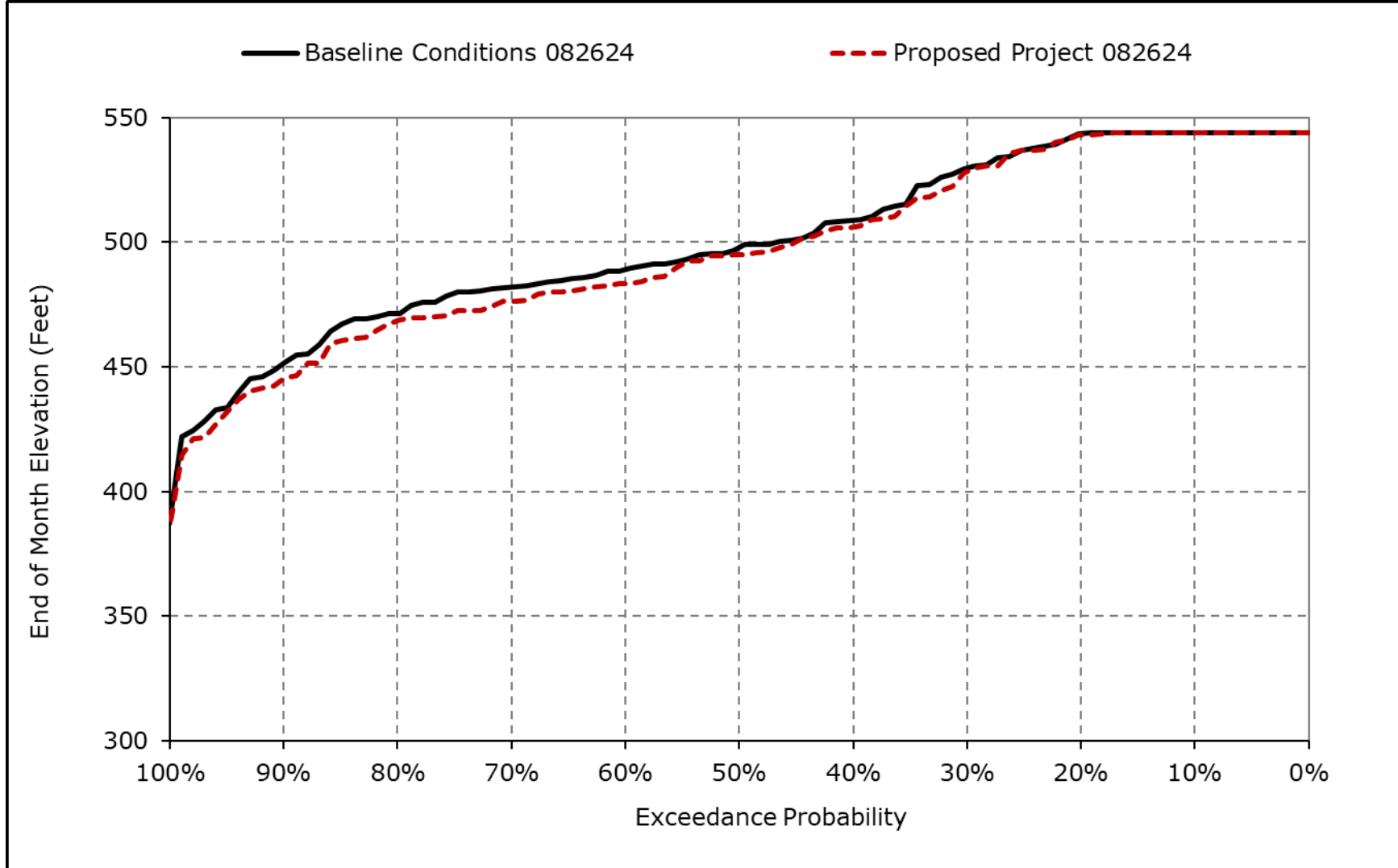
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3e. San Luis Reservoir (SWP and CVP), February



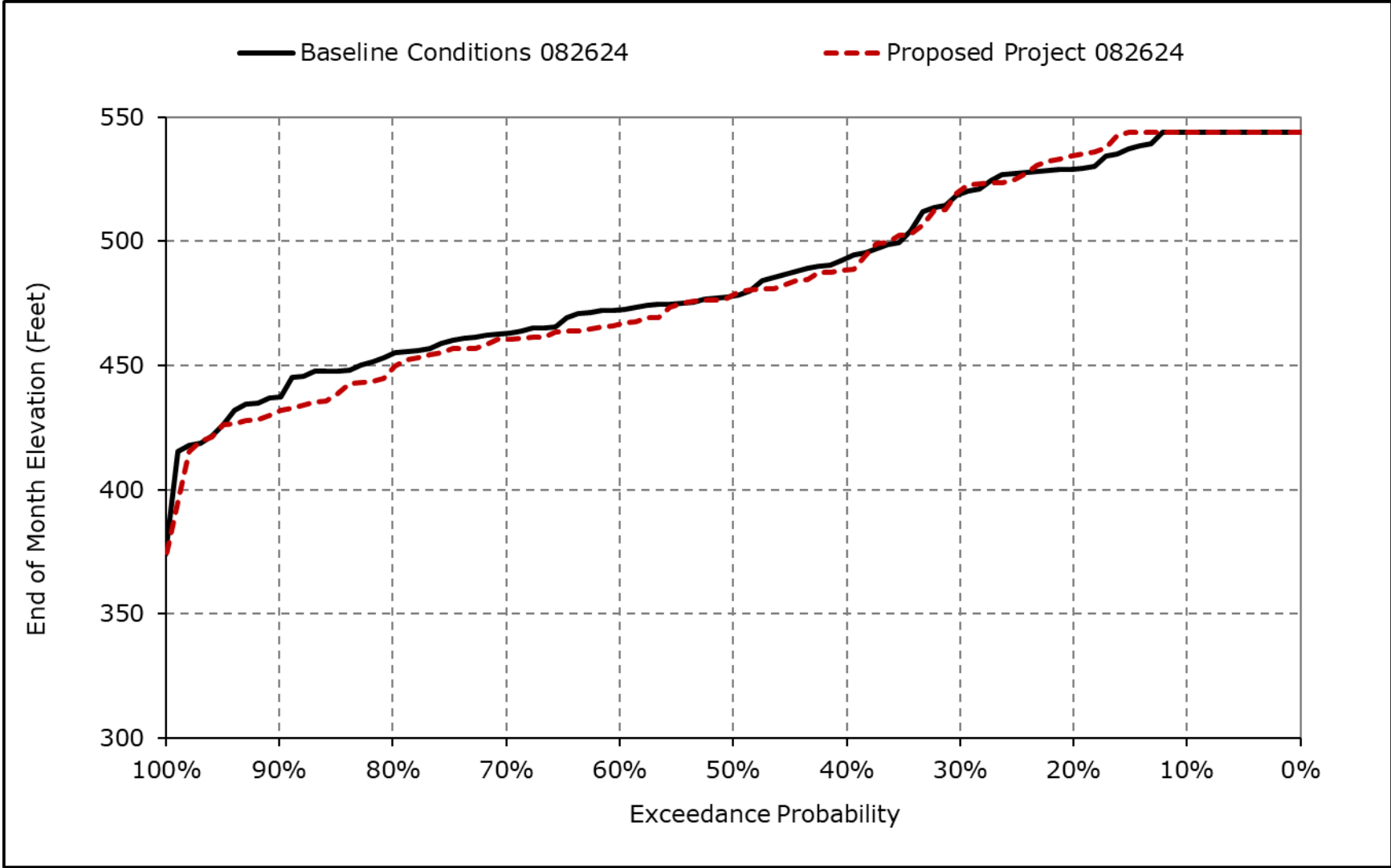
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3f. San Luis Reservoir (SWP and CVP), March



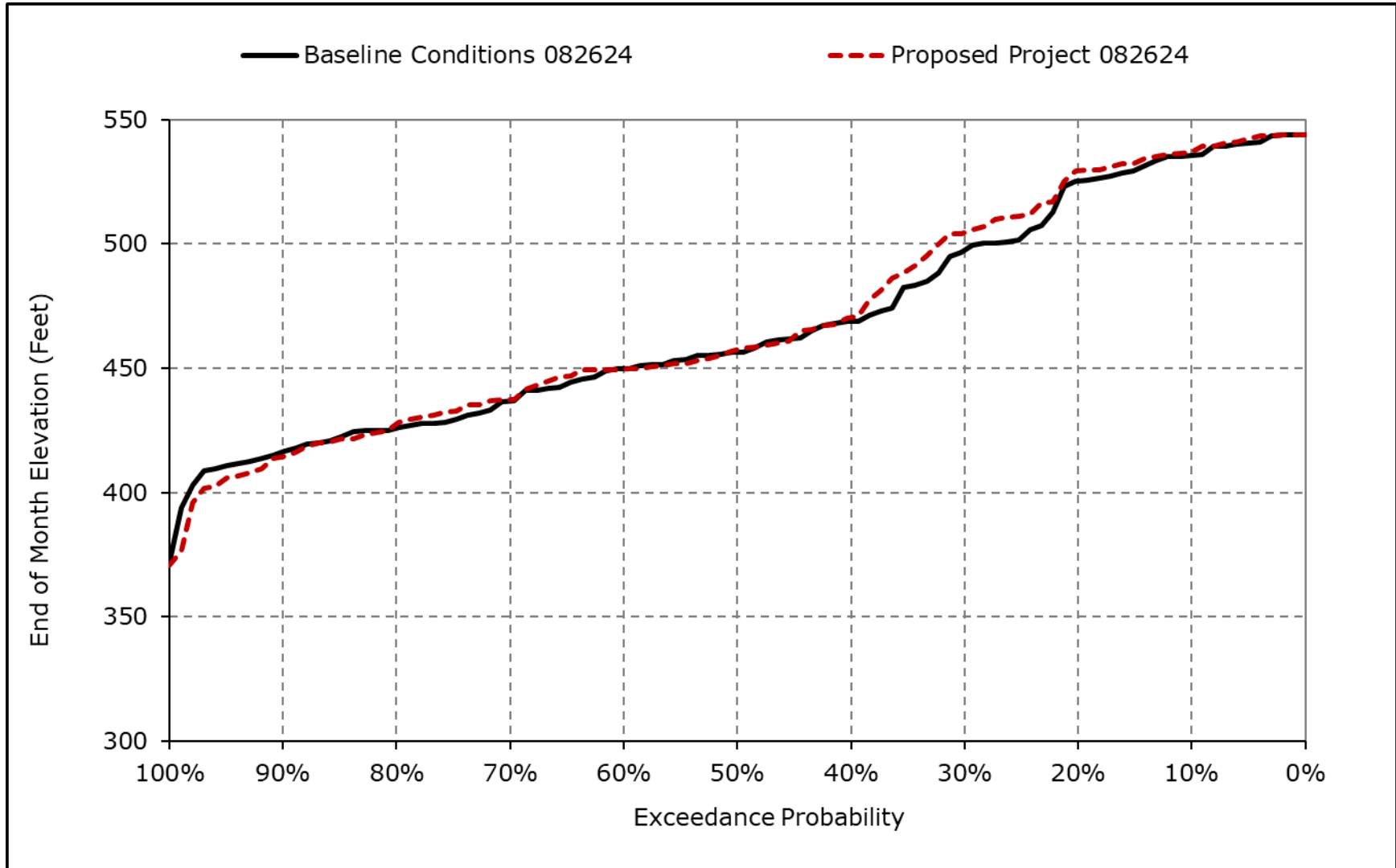
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3g. San Luis Reservoir (SWP and CVP), April



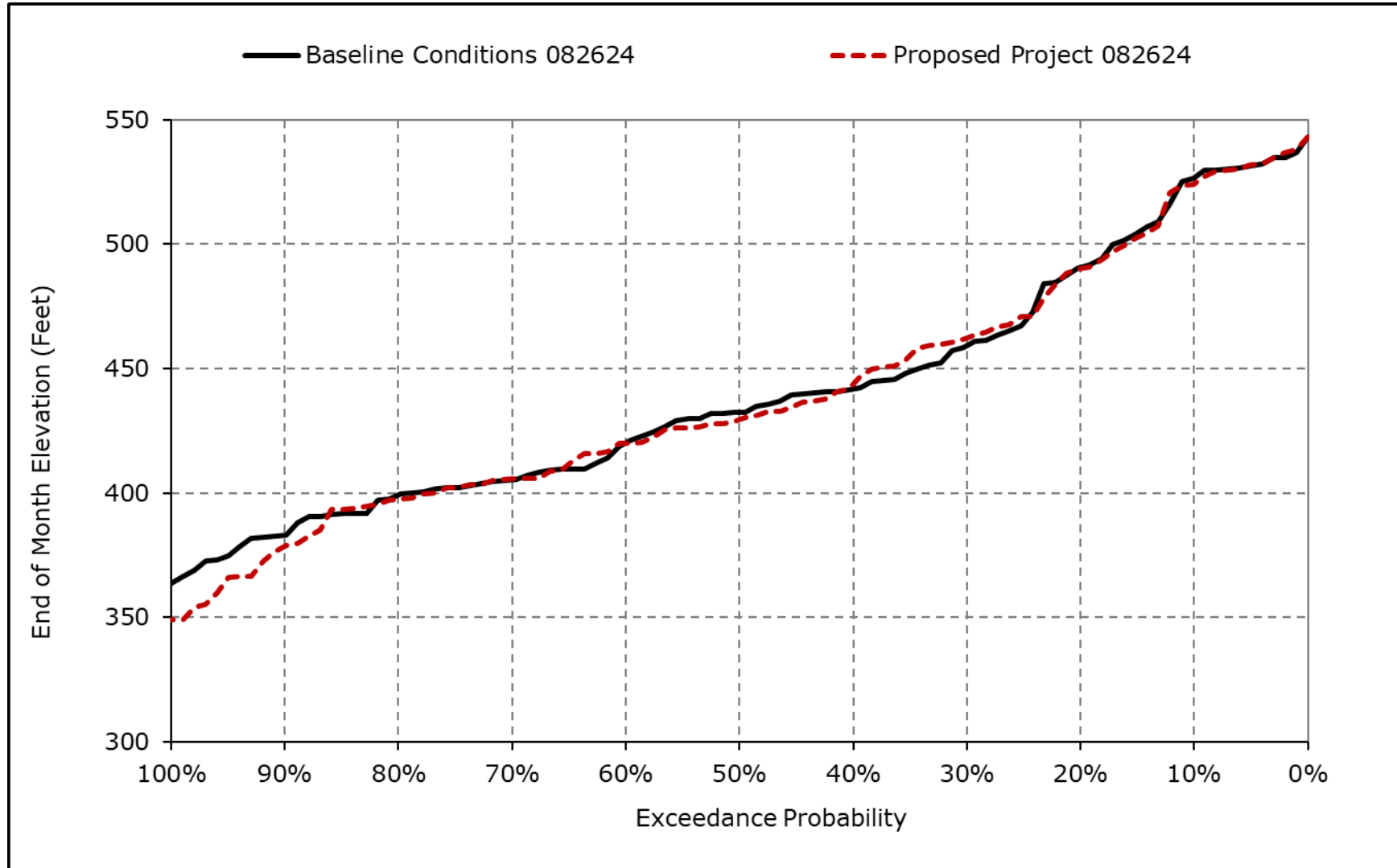
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3h. San Luis Reservoir (SWP and CVP), May



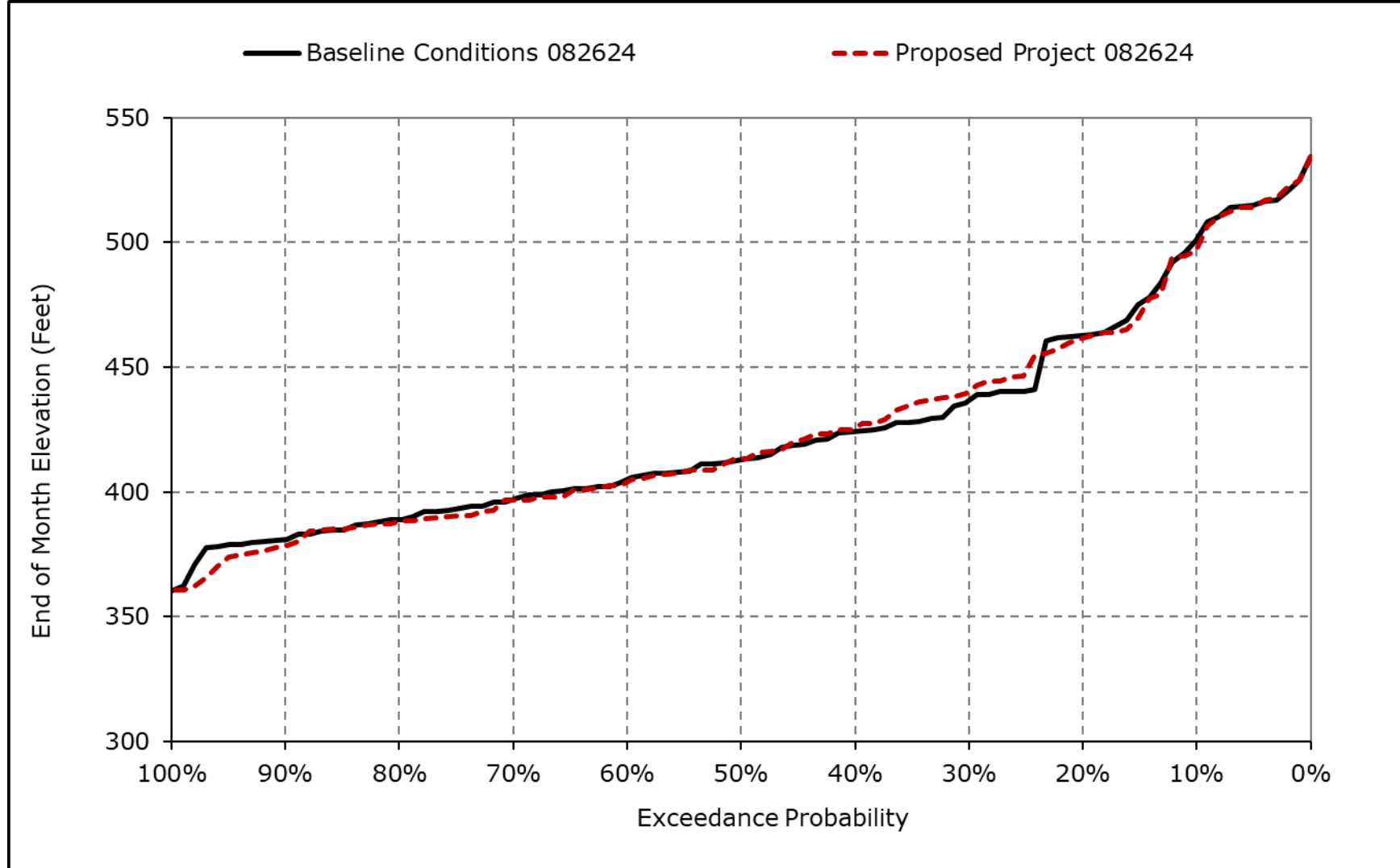
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3i. San Luis Reservoir (SWP and CVP), June



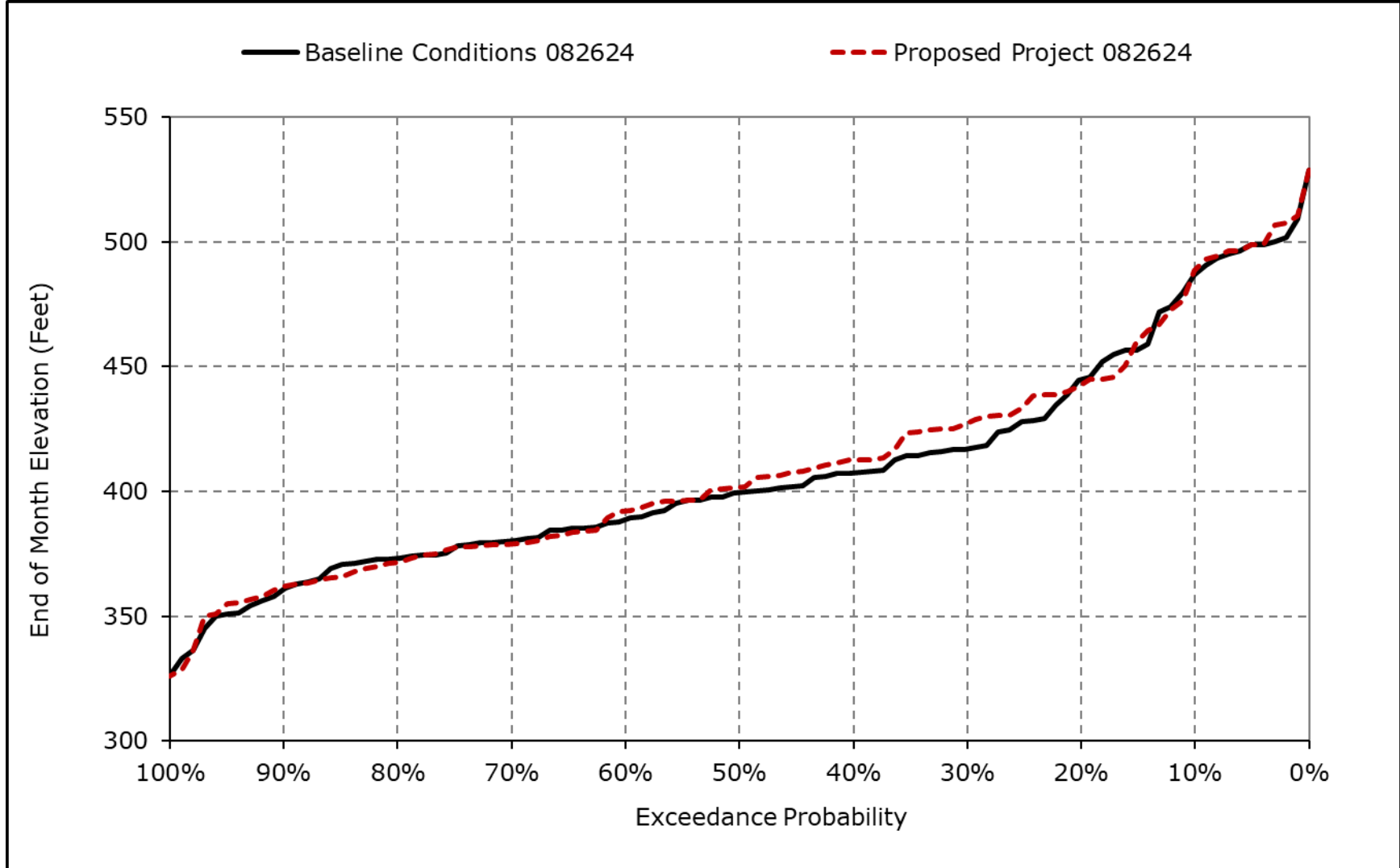
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3j. San Luis Reservoir (SWP and CVP), July



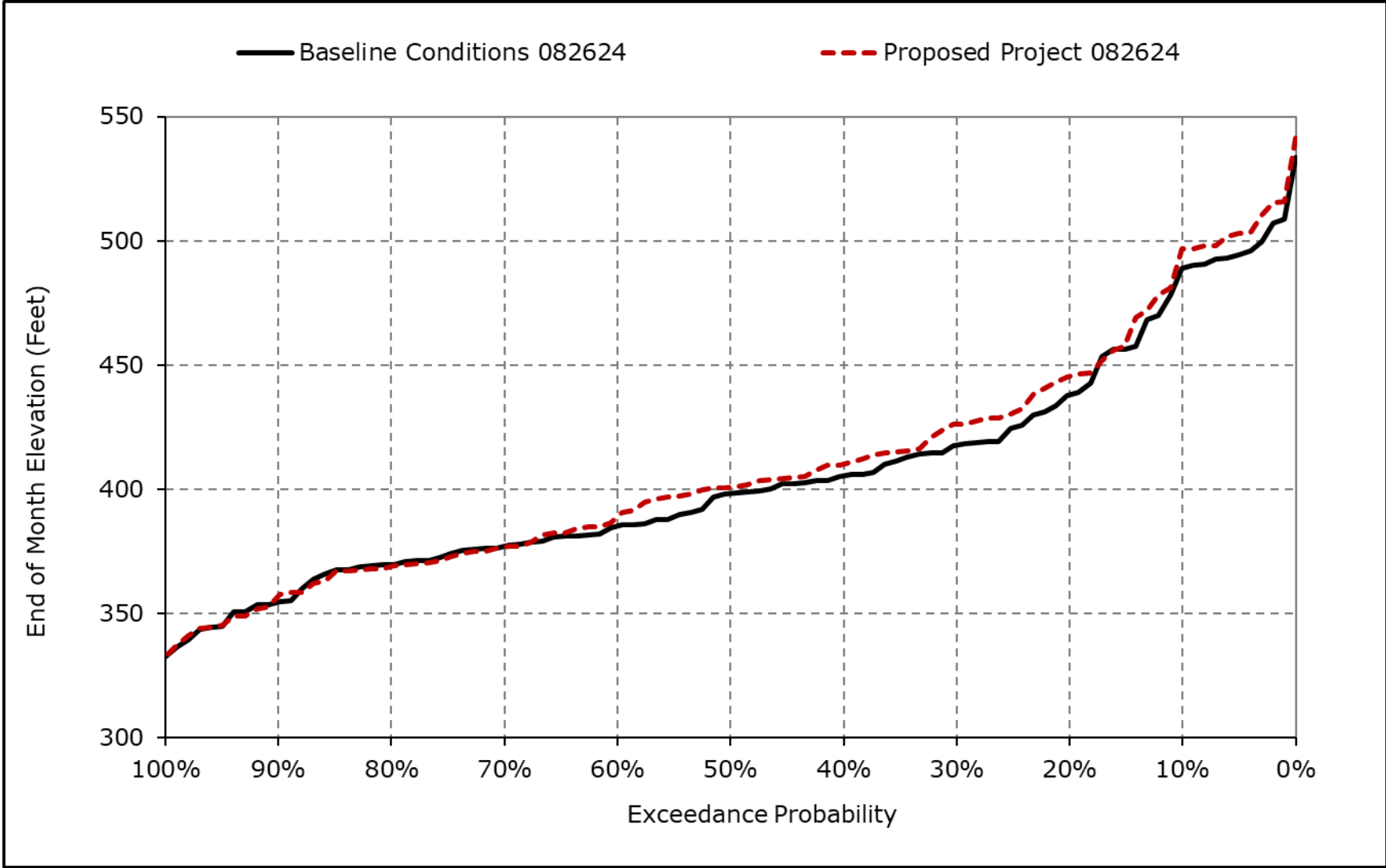
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4B-1-3k. San Luis Reservoir (SWP and CVP), August



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

Figure 4B-1-3I. San Luis Reservoir (SWP and CVP), September



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