



Licence WU67 Monthly Environmental Flow Report December 2021

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1. Introduction

Icon Water holds a Licence to Take Water under the Water Resources Act 2007 – Licence Number WU67.

Under Licence Number WU67 clause C1, it is a requirement to provide the following information to the Environment Protection Authority (EPA) by the 15th day of each month.

2. Compliance Analysis and Operational Interactions

Table 1 - Notes relating to the reporting month Environmental Flow releases

Reservoir	Notes
Corin	Corin Dam spilled throughout December. Releases were at licence requirements throughout December. The bi-monthly riffle release was achieved via overflows. Flow variation was changed from +/- 25% back to +/- 50% on 30 December
Bendora	Bendora Dam spilled throughout December. Releases were at licence requirements throughout December. The bi-monthly riffle release was achieved via overflows. Flow variation was changed from +/- 25% back to +/- 50% on 29 December
Cotter	Cotter Dam spilled throughout December. Releases were at licence requirements throughout December.
Googong	Googong Dam spilled throughout December. Googong mini-hydro operated for the Majority of December. Releases were above licence requirements while the mini-hydro was operating.

Table 2 – Notes relating to abstraction from Murrumbidgee River

Mt MacDonald river gauge	Not applicable, natural river flows.
Murrumbidgee abstraction	There was no Murrumbidgee River abstraction for consumption in December.
Murrumbidgee To Cotter Eflow	M2C did not operate in December.
Murrumbidgee to Googong	M2G did not operate in December.
Angle Crossing river gauge	Not applicable, natural river flows.

3. Environmental Release Data

The environmental flow release requirements for the current month (a combination of requirements) are detailed in Table 3.

Table 3 – Current month Environmental Flow releases (Total for month in ML)

	Corin	Bendora	Cotter	Googong
Previous month's shortfall (-) or Excess (+) *	46.5	71.3		
Monthly 75% of the 80 th %tile ML #	465	713		
Additional release required?	No	No	No	No
Current month's release target	418.5	641.7	550	400

Note: * Excess carried forward is capped at 10% of the current month's base flow.

Shortfall carried forward is 100% of the amount of water under released.

Under stage 1 or greater water restrictions, targets flow change to a predetermined base flow.

Daily totals in Table 4 to Table 7 are reported as the 24-hour average from midnight to midnight. Operational changes to environmental flow releases occur during business hours, and therefore the value reported may be slightly different to the target flow on the day the flow is changed. This is particularly evident for large changes in flow e.g. the riffle and pool flushes as the flow is averaged for the day.

The actual daily flows, in megalitres per day (ML/d), from each reservoir are detailed in Table 4 to Table 7 together with the water produced at the water treatment plants (WTP) in Table 10.

Table 8 provides more detail with respect to environmental flows provided below Cotter Dam. The e-flows are made up of two components: water released from the Cotter Dam and water being pumped from Murrumbidgee River to below Cotter Dam. This is to satisfy the requirements set out by ACT EPA and Federal Department of the Environment for the operation of the Enlarged Cotter Dam.

Table 9 provides flow details for the operations of the Murrumbidgee to Googong pipeline. It details daily flows through the high lift pumps station as well as daily flows in the Murrumbidgee River at Angle crossing. This is to demonstrate compliance with the requirements set out by ACT EPA, Federal Department of the Environment and NSW Department of Planning.

Table 10 also details the quantity of treated water that has been transferred to Googong reservoir from Stromlo WTP.

Table 4 - Monthly Environmental Flow release data for Corin dam

SUM	410730 Gingera (unverified)	410730 Gingera (verified)	Environmental flow release below Corin Date	Daily base flow	Additional release (pool / riffle)	Planned +/- 50% release regime	Calculated Natural Flow. (Unverified)	Calculated Natural Flow. (Verified)	Adjusted daily base flow. EOM = Revised monthly target	410752 Corin D/S (Unverified)	410752 Corin D/S (Verified)	EOM Excess (+) / Shortfall (-) to carry forward	EOM Correction to 410730, Verified Vs unverified	EOM Correction to 410752, Verified Vs unverified	Comments
	Previous months adjustment									-80.6					
	518.41	504.7	Wed 1-Dec-21	26.00			32.3	740.4	720.9	26.0	576.90	576.9			
	450.63	479.8	Thu 2-Dec-21	26.00			19.5	643.6	685.3	26.0	559.48	561.1			
	373.06	384.2	Fri 3-Dec-21	26.00			19.5	532.8	548.8	26.0	497.77	501.5			
	331.92	339.5	Sat 4-Dec-21	26.00			19.5	474.1	484.9	26.0	452.23	457.7			
	312.2	314.9	Sun 5-Dec-21	26.00			19.5	445.9	449.8	26.0	415.3	421.9			
	292.9	297.1	Mon 6-Dec-21	26.00			19.5	418.3	424.3	26.0	394.4	402.7			
	276.7	280.6	Tue 7-Dec-21	26.00			19.5	395.2	400.8	26.0	379.4	389.8			
	275.7	274.5	Wed 8-Dec-21	26.00			19.5	393.8	392.1	26.0	369.0	381.5			
	388.96	336.3	Thu 9-Dec-21	26.00			32.5	555.5	480.3	26.0	434.69	448.5			
	639.66	651.8	Fri 10-Dec-21	26.00			32.5	913.6	931.0	26.0	606.85	621.2			
	397.93	417.8	Sat 11-Dec-21	26.00			32.5	568.4	596.7	26.0	523.4	540.2			
	364.54	364.6	Sun 12-Dec-21	26.00			32.5	520.7	520.8	26.0	453.8	473.5			
	325.01	338.1	Mon 13-Dec-21	26.00			32.5	464.2	482.9	26.0	433.1	453.7			
	294.01	299	Tue 14-Dec-21	26.00		150	32.5	419.9	427.1	150.0	393.9	415.4			
	284.24	283	Wed 15-Dec-21	26.00		150	32.5	406.0	404.2	150.0	375.2	391.5			
	262.17	270.3	Thu 16-Dec-21	26.00		150	19.5	374.5	386.1	150.0	355.7	381			Riffle release achieved.
	237.36	241.2	Fri 17-Dec-21	26.00			19.5	339.0	344.5	26.0	328.1	357.1			
	247.16	239.2	Sat 18-Dec-21	26.00			19.5	353.0	341.6	26.0	329.59	359.3			
	496.45	434.5	Sun 19-Dec-21	26.00			19.5	709.1	620.6	26.0	471.71	501.4			
	346.97	397.7	Mon 20-Dec-21	26.00			19.5	495.6	568.0	26.0	540.72	571.3			
	277.64	284.9	Tue 21-Dec-21	26.00			19.5	396.6	406.9	26.0	414.37	448.2			
	249.49	253.1	Wed 22-Dec-21	26.00			19.5	356.3	361.5	26.0	354.85	392.3			
	232.84	235.5	Thu 23-Dec-21	26.00			32.5	332.6	336.4	26.0	331.99	372.6			
	218.58	220.3	Fri 24-Dec-21	26.00			32.5	312.2	314.7	26.0	309.28	350			
	204.52	206.2	Sat 25-Dec-21	26.00			32.5	292.1	294.5	26.0	293.61	335.3			
	217.09	212.8	Sun 26-Dec-21	26.00			32.5	310.1	303.9	26.0	295.13	340.1			
	202.88	206.1	Mon 27-Dec-21	26.00			32.5	289.8	294.4	26.0	305.86	352.3			Comment from ALS: 410752 rating table extrapolated
	185.96	188.6	Tue 28-Dec-21	26.00			32.5	265.6	269.4	26.0	266.08	314.6			
	173.21	175	Wed 29-Dec-21	26.00			32.5	247.4	250.0	26.0	247.29	298.8			
	163.70	164.4	Thu 30-Dec-21	26.00			19.5	233.8	234.8	26.0	230.92	281.9			Flow variation back to +/-50%
	153.34	155	Fri 31-Dec-21	26.00			19.5	219.0	221.4	26.0	220.07	268.8			
SUM	9,395.17	9450.7		806.0	450.0	799.3	13419.1	13498.4	1097.4	12160.8	12962.1	46.5	0.6%	6.6%	

Table 5 - Monthly Environmental Flow release data for Bendora dam

SUM	410730 Gingera (unverified)	410730 Gingera (verified)	Environmental flow release below Bendora Date	Daily base flow	Additional release (pool / riffle)	Planned +/- 50% release regime	Calculated Natural Flow. (Unverified)	Calculated Natural Flow. (Verified)	Adjusted daily base flow. EOM = Revised monthly target	410747 Bendora D/S (Unverified)	410747 Bendora D/S (Verified)	EOM Excess (+) / Shortfall (-) to carry forward	EOM Correction to 410730 , Verified Vs unverified	EOM Correction to 410747 , Verified Vs unverified	Comments
Previous months adjustment									-127.1						
	518.41	504.7	Wed 1-Dec-21	41.00		30.8	1140.5	1110.3	41.0	1052.0	1012				
	450.63	479.8	Thu 2-Dec-21	41.00		30.8	991.4	1055.6	41.0	955.1	918				
	373.06	384.2	Fri 3-Dec-21	41.00		30.8	820.7	845.2	41.0	778.8	746.6				
	331.92	339.5	Sat 4-Dec-21	41.00		30.8	730.2	746.9	41.0	656.7	627.9				
	312.2	314.9	Sun 5-Dec-21	41.00		30.8	686.8	692.8	41.0	612.0	583.5				
	292.9	297.1	Mon 6-Dec-21	41.00		30.8	492.9	653.6	41.0	492.9	492.9				
	276.7	280.6	Tue 7-Dec-21	41.00		30.8	446.5	617.3	41.0	446.5	446.5				
	275.7	274.5	Wed 8-Dec-21	41.00		51.3	417.8	603.9	41.0	417.8	416.4				
	388.96	336.3	Thu 9-Dec-21	41.00		51.3	501.6	739.9	41.0	501.56	489.4				
	639.66	651.8	Fri 10-Dec-21	41.00		51.3	949.9	1434.0	41.0	949.85	903.5				
	397.93	417.8	Sat 11-Dec-21	41.00		51.3	999.8	919.2	41.0	999.8	952.3				
	364.54	364.6	Sun 12-Dec-21	41.00		51.3	739.0	802.1	41.0	739.0	717.4				
	325.01	338.1	Mon 13-Dec-21	41.00		51.3	715.0	743.8	41.0	637.3	630.5				
	294.01	299	Tue 14-Dec-21	41.00	150	51.3	646.8	657.8	150.0	539.8	540.6				Riffle release achieved
	284.24	283	Wed 15-Dec-21	41.00	150	30.8	625.3	622.6	150.0	468.5	468.1				
	262.17	270.3	Thu 16-Dec-21	41.00	150	30.8	576.8	594.7	150.0	421.0	425.4				
	237.36	241.2	Fri 17-Dec-21	41.00		30.8	522.2	530.6	41.0	362.2	370.2				
	247.16	239.2	Sat 18-Dec-21	41.00		30.8	543.8	526.2	41.0	334.14	343.6				
	496.45	434.5	Sun 19-Dec-21	41.00		30.8	1092.2	955.9	41.0	580.38	567.3				
	346.97	397.7	Mon 20-Dec-21	41.00		30.8	763.3	874.9	41.0	975.29	950.4				
	277.64	284.9	Tue 21-Dec-21	41.00		30.8	610.8	626.8	41.0	692.78	684.2				
	249.49	253.1	Wed 22-Dec-21	41.00		51.3	548.9	556.8	41.0	510.51	512.8				
	232.84	235.5	Thu 23-Dec-21	41.00		51.3	512.2	518.1	41.0	412.98	420.2				
	218.58	220.3	Fri 24-Dec-21	41.00		51.3	480.9	484.7	41.0	359.19	369.7				
	204.52	206.2	Sat 25-Dec-21	41.00		51.3	449.9	453.6	41.0	323.35	335.1				
	217.09	212.8	Sun 26-Dec-21	41.00		51.3	477.6	468.2	41.0	316.72	325.8				
	202.88	206.1	Mon 27-Dec-21	41.00		51.3	446.3	453.4	41.0	368.33	370.8				
	185.96	188.6	Tue 28-Dec-21	41.00		51.3	409.1	414.9	41.0	296.26	300.4				
	173.21	175	Wed 29-Dec-21	41.00		30.8	381.1	385.0	41.0	243.46	251.9				Flow variation back to +/-50%
	163.70	164.4	Thu 30-Dec-21	41.00		30.8	360.1	361.7	41.0	223.06	234.3				
	153.34	155	Fri 31-Dec-21	41.00		30.8	337.3	341.0	41.0	196.85	208.4				
SUM	9,395.17	9450.7		1271.0	450.0	1240.3	19416.9	20791.5	1470.9	16864.2	16616.1	71.3	0.6%	-1.5%	

Table 6 - Monthly Environmental Flow release data for Cotter dam

SUM	Environmental flow release below Cotter	Daily base flow	Additional release (pool / riffle)				EOM = Revised monthly target	410700 Cotter D/S (Unverified)	410700 Cotter D/S (Verified)	EOM Excess (+) / Shortfall (-)	EOM Correction to 410700 , Verified Vs unverified	Comments
SUM	Date	flow	(pool / riffle)					(Unverified)	(Verified)		Verified Vs unverified	
Previous months adjustment							0.0					
	Wed 1-Dec-21	15					15.0	1480.6	1465			
	Thu 2-Dec-21	15					15.0	1308.8	1294			
	Fri 3-Dec-21	15					15.0	1137.3	1124			
	Sat 4-Dec-21	15					15.0	958.7	943.8			
	Sun 5-Dec-21	15					15.0	892.6	878.3			
	Mon 6-Dec-21	15					15.0	774.3	761.1			
	Tue 7-Dec-21	15					15.0	761.1	680.9			
	Wed 8-Dec-21	15					15.0	680.9	624.5			
	Thu 9-Dec-21	15					15.0	624.5	837.8			
	Fri 10-Dec-21	15					15.0	837.9	1909			
	Sat 11-Dec-21	15					15.0	1903.1	1827			
	Sun 12-Dec-21	15					15.0	1831.9	1310			
	Mon 13-Dec-21	15					15.0	1314.5	1076			
	Tue 14-Dec-21	15					15.0	919.4	915.7			
	Wed 15-Dec-21	15					15.0	809.6	805.4			
	Thu 16-Dec-21	15					15.0	702.2	695.8			
	Fri 17-Dec-21	15					15.0	606.9	601.1			
	Sat 18-Dec-21	15					15.0	545.9	540.4			
	Sun 19-Dec-21	15					15.0	779.2	772.6			
	Mon 20-Dec-21	15					15.0	1224.8	1214			
	Tue 21-Dec-21	15					15.0	1088.8	1076			
	Wed 22-Dec-21	15					15.0	835.2	824.9			
	Thu 23-Dec-21	15					15.0	673.2	663.9			
	Fri 24-Dec-21	15					15.0	571.72	563.3			
	Sat 25-Dec-21	15					15.0	504.17	495.2			
	Sun 26-Dec-21	15					15.0	464.04	454.6			
	Mon 27-Dec-21	15					15.0	485.13	475.6			
	Tue 28-Dec-21	15					15.0	448.08	439.5			
	Wed 29-Dec-21	15					15.0	382.51	375.9			
	Thu 30-Dec-21	15					15.0	336.69	330.9			
	Fri 31-Dec-21	15					15.0	310.3	304.9			
SUM		465.0	0.0				465.0	26194.1	26281.1	25816.1	0.3%	

Table 7 - Monthly Environmental Flow release data for Googong dam

SUM	410781 Upstream Googong (Unverified)	410781 Upstream Googong (Verified)	Environmental flow release below Googong	Daily base flow	Additional release (pool / riffle)	Calculated Natural Flow. (Unverified)	Calculated Natural Flow. (Verified)	EOM = Revised monthly target	410760 Wickerslack (Unverified)	410760 Wickerslac k (Verified)	EOM Excess (+) / Shortfall (-)	EOM Correction to 410781, Verified Vs unverified	EOM Correction to 410760, Verified Vs unverified	Comments
Previous months adjustment														
	1092.0	1022		Wed 1-Dec-21	10.0		1397.7	1308.2	10.0	1318.29	1318			
	1187.5	1248		Thu 2-Dec-21	10.0		1519.9	1597.4	10.0	1316.44	1316			
	813.2			Fri 3-Dec-21	10.0		1040.8		10.0	1215.45	1215			
	677.7			Sat 4-Dec-21	10.0		867.5		10.0	929.36	929.4			
	604.9			Sun 5-Dec-21	10.0		774.3		10.0	784.1	784.1			
	537.8			Mon 6-Dec-21	10.0		688.4		10.0	656.7	656.7			
	493.0			Tue 7-Dec-21	10.0		631.1		10.0	603.2	603.2			
	564.1			Wed 8-Dec-21	10.0		722.0		10.0	595.2	596.5			
	656.05			Thu 9-Dec-21	10.0		839.8		10.0	646.00	646			
	7286.67			Fri 10-Dec-21	10.0		9326.9		10.0	3994.48	4001			
	3297.7			Sat 11-Dec-21	10.0		4221.0		10.0	6967.91	7010			
	1717.7			Sun 12-Dec-21	10.0		2198.7		10.0	3181.52	3208			
	1877.1			Mon 13-Dec-21	10.0		2402.7		10.0	1235.34	1871			
	964.1			Tue 14-Dec-21	10.0		1234.0		10.0	1336.89	1332			
	802.2			Wed 15-Dec-21	10.0		1026.8		10.0	1054.73	1051			
	822.5			Thu 16-Dec-21	10.0		1052.8		10.0	949.48	943.5			
	651.9			Fri 17-Dec-21	10.0		834.5		10.0	821.72	814.2			
	569.30			Sat 18-Dec-21	10.0		728.7		10.0	732.75	725.8			
	595.38			Sun 19-Dec-21	10.0		762.1		10.0	846.84	839.2			
	627.32			Mon 20-Dec-21	10.0		803.0		10.0	906.69	898.8			
	484.57			Tue 21-Dec-21	10.0		620.2		10.0	767.40	760			
	398.10			Wed 22-Dec-21	10.0		509.6		10.0	593.44	584.2			
	359.14			Thu 23-Dec-21	10.0		459.7		10.0	479.35	471.2			
	334.66			Fri 24-Dec-21	10.0		428.4		10.0	411.79	404.3			
	323.19			Sat 25-Dec-21	10.0		413.7		10.0	372.90	366			
	518.52			Sun 26-Dec-21	10.0		663.7		10.0	414.41	407.1			Comment form ALS: 410760 rating table extrapolated
	653.92			Mon 27-Dec-21	10.0		837.0		10.0	867.92	853.8			Comment form ALS: 410760 rating table extrapolated
	391.62			Tue 28-Dec-21	10.0		501.3		10.0	679.02	665.7			
	321.61			Wed 29-Dec-21	10.0		411.7		10.0	500.82	489.7			
	278.84			Thu 30-Dec-21	10.0		356.9		10.0	425.00	415			
	250.21			Fri 31-Dec-21	10.0		320.3		10.0	342.24	333.4			
SUM	30152.5	2270.0			310.0	0.0	38595.2	2905.6	310.0	35947.4	36509.8	36199.8	-92.5%	1.6%

Note:

410781 Upstream Googong verified data is provided every second month.

Table 8 – Monthly flow data for Cotter River Environmental Flows

Date	Cotter River e-flows below Cotter Dam		Comments
	E-flow sourced from Murrumbidgee via M2C	E-flow sourced from Cotter Dam release/spill	
Wed 1-Dec-21	0.0	1465	
Thu 2-Dec-21	0.0	1294	
Fri 3-Dec-21	0.0	1124	
Sat 4-Dec-21	0.0	943.8	
Sun 5-Dec-21	0.0	878.3	
Mon 6-Dec-21	0.0	761.1	
Tue 7-Dec-21	0.0	680.9	
Wed 8-Dec-21	0.0	624.5	
Thu 9-Dec-21	0.0	837.8	
Fri 10-Dec-21	0.0	1909	
Sat 11-Dec-21	0.0	1827	
Sun 12-Dec-21	0.0	1310	
Mon 13-Dec-21	0.0	1076	
Tue 14-Dec-21	0.0	915.7	
Wed 15-Dec-21	0.0	805.4	
Thu 16-Dec-21	0.0	695.8	
Fri 17-Dec-21	0.0	601.1	
Sat 18-Dec-21	0.0	540.4	
Sun 19-Dec-21	0.0	772.6	
Mon 20-Dec-21	0.0	1214	
Tue 21-Dec-21	0.0	1076	
Wed 22-Dec-21	0.0	824.9	
Thu 23-Dec-21	0.0	663.9	
Fri 24-Dec-21	0.0	563.3	
Sat 25-Dec-21	0.0	495.2	
Sun 26-Dec-21	0.0	454.6	
Mon 27-Dec-21	0.0	475.6	
Tue 28-Dec-21	0.0	439.5	
Wed 29-Dec-21	0.0	375.9	
Thu 30-Dec-21	0.0	330.9	
Fri 31-Dec-21	0.0	304.9	
Total	0.0	26281.1	

Table 9 – Monthly flow data for Murrumbidgee to Googong

Date	Murrumbidgee at Angle crossing	M2G Flow	Comments
Wed 1-Dec-21	7386.916	0.0	
Thu 2-Dec-21	6076.337	0.0	
Fri 3-Dec-21	4803.680	0.0	
Sat 4-Dec-21	4775.435	0.0	
Sun 5-Dec-21	3806.397	0.0	
Mon 6-Dec-21	2971.439	0.0	
Tue 7-Dec-21	2571.700	0.0	
Wed 8-Dec-21	2288.220	0.0	
Thu 9-Dec-21	2127.680	0.0	
Fri 10-Dec-21	2227.818	0.0	
Sat 11-Dec-21		0.0	Data not available
Sun 12-Dec-21		0.0	Data not available
Mon 13-Dec-21		0.0	Data not available
Tue 14-Dec-21		0.0	Data not available
Wed 15-Dec-21	7238.309	0.0	
Thu 16-Dec-21	5379.703	0.0	
Fri 17-Dec-21	4631.574	0.0	
Sat 18-Dec-21	4213.292	0.0	
Sun 19-Dec-21	3513.538	0.0	
Mon 20-Dec-21	3164.056	0.0	
Tue 21-Dec-21	4265.327	0.0	
Wed 22-Dec-21	5696.866	0.0	
Thu 23-Dec-21	4176.005	0.0	
Fri 24-Dec-21	2914.637	0.0	
Sat 25-Dec-21	2417.501	0.0	
Sun 26-Dec-21	2152.187	0.0	
Mon 27-Dec-21	2200.336	0.0	
Tue 28-Dec-21	2156.689	0.0	
Wed 29-Dec-21	1894.139	0.0	
Thu 30-Dec-21	1639.203	0.0	
Fri 31-Dec-21	1549.701	0.0	
Total	98238.685	0.0	

Table 10 – Monthly water production data and water transferred to Googong reservoir

Day	Stromlo WTP ML			Googong WTP ML	Transfer from SWTP to Googong res.
	M'bidgee	Cotter	Bendora		
1	0.0	0.0	85.2	0.0	0.0
2	0.0	0.0	129.3	0.0	0.0
3	0.0	0.0	133.3	0.0	0.0
4	0.0	0.0	138.9	0.0	0.0
5	0.0	0.0	129.7	0.0	0.0
6	0.0	0.0	124.8	0.0	0.0
7	0.0	0.0	131.9	0.0	0.0
8	0.0	0.0	130.8	0.0	0.0
9	0.0	0.0	127.3	0.0	0.0
10	0.0	0.0	120.2	0.0	0.0
11	0.0	0.0	108.4	0.0	0.0
12	0.0	0.0	108.5	0.0	0.0
13	0.0	0.0	111.8	0.0	0.0
14	0.0	0.0	119.8	0.0	0.0
15	0.0	0.0	128.1	0.0	0.0
16	0.0	0.0	130.6	0.0	0.0
17	0.0	0.0	147.5	0.0	0.0
18	0.0	0.0	145.1	0.0	0.0
19	0.0	0.0	140.4	0.0	0.0
20	0.0	0.0	124.5	0.0	0.0
21	0.0	0.0	124.1	0.0	0.0
22	0.0	0.0	128.8	0.0	0.0
23	0.0	0.0	139.5	0.0	0.0
24	0.0	0.0	148.5	0.0	0.0
25	0.0	0.0	150.5	0.0	0.0
26	0.0	0.0	132.1	0.0	0.0
27	0.0	0.0	127.7	0.0	0.0
28	0.0	0.0	124.2	0.0	0.0
29	0.0	0.0	134.5	0.0	0.0
30	0.0	0.0	130.6	0.0	0.0
31	0.0	0.0	124.3	0.0	0.0
Total	0.0	0.0	3980.9	0.0	0.0

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