

SYSTEM-WIDE LOW-FLOW MANAGEMENT PLAN MATRIX
Mississippi River above St. Paul, Minnesota
REVISED June, 2015

Location (River if not Mspi)	DAM NAME	DAM OPERATOR Contact & Phone # for EMERGENCIES	RELEVANT GAGE SITE & WEBSITE if applicable	NEW TRIGGER LOW FLOWS (instantaneous flow)	NORMAL POOL ELEVATION & OPERATING BAND	RAMPING RATE	NOTES	e-mail CONTACT(S)
Winnibigoshish Dam above Ball Club FAX: 651-290-5841	USACE	St. Paul Water Control Center: Brian Johnson 651-290-5652	Winnibigoshish http://www.usace.army.mil/dcp/	400 cfs @ Grand Rapids	1298.19 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 2 hours	No hydropower. Minimum release = 100 cfs @ 1297.94 50 cfs @ 1294.94 view on the Web www.mvp-wc.usace.army.mil/	brian.ke.johnson@usace.army.mil
POKEGAMA DAM Grand Rapids FAX: 651-290-5841	USACE	St. Paul Water Control Center: Brian Johnson 651-290-5652	Pokegama http://www.usace.army.mil/dcp/	400 cfs @ Grand Rapids	1273.42 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 2 hours	No hydropower. Minimum release = sum of flows from Winnibigoshish & Leech Lake @ 1273.17 or below	brian.ke.johnson@usace.army.mil
RAPIDS ENERGY CENTER (BLANDIN DAM) Grand Rapids FAX: 218-326-1530	MN Power	Control Room 218-313-6908 Rick Fannin 218-313-6927	Grand Rapids Gage # 05211000 http://www.usace.army.mil/dcp/	400 cfs @ Grand Rapids	1268.2 ± 0.1' (NGVD, 1929)	No more than 10% change in flow in 2 hours	Direct phone access to gage is no longer available.	rfannin@mnpower.com frickerickson@mnpower.com
PRAIRIE RIVER DAM La Prairie (Prairie River) FAX: 218-626-0027	MN Power	Hydro Operator 218-725-2110 Nora Rosemore 218-725-2101	Grand Rapids Gage # 05211000 http://www.usace.army.mil/dcp/	400 cfs @ Grand Rapids	1289.4 ± 0.1' (NGVD, 1929)	No more than 10% change in flow in 2 hours	Remote gate control from Thomson Hydropower near Duluth	nrosemore@mnpower.com daspie@mnpower.com
BRainerd DAM (POTLATCHWAUSAU DAM) Brainerd FAX: 218-822-6667	City of Brainerd	Hydro Operator 218-822-6608 Scott Magnuson 218-825-3213	Brainerd Gage #05242300 http://www.usace.army.mil/dcp/	900 cfs @ Brainerd	1174.04 ± 0.1' (NGVD, 1929)	Adjustment limited to 10% flow over 6-hr period.	City of Brainerd purchased dam from Wausau Paper in 2014	smagnuson@bpu.org hydro@bpu.org
LITTLE FALLS DAM Little Falls FAX: 218-626-0027	MN Power	Hydro Operator 218-725-2110 Nora Rosemore 218-725-2101	Royalton Gage #05267000 http://www.usace.army.mil/dcp/	1500 cfs @ Royalton	1107.0 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 1 hour	Remote control from Thomson Hydro near Duluth. Hennepin Paper no longer exists.	nrosemore@mnpower.com daspie@mnpower.com
SYLVAN DAM below Pillager (Crow Wing River) FAX: 218-626-0027	MN Power	Hydro Operator 218-725-2110 Nora Rosemore 218-725-2101	Royalton Gage #05267000 http://www.usace.army.mil/dcp/	1500 cfs @ Royalton	1177.0 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 1 hour	Remote control from Thomson Hydro near Duluth	nrosemore@mnpower.com daspie@mnpower.com
PILLAGER DAM Pillager (Crow Wing River) FAX: 218-626-0027	MN Power	Hydro Operator 218-725-2110 Nora Rosemore 218-725-2101	Royalton Gage #05267000 http://www.usace.army.mil/dcp/	1500 cfs @ Royalton	1199.25 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 1 hour	Remote control from Thomson Hydro near Duluth	nrosemore@mnpower.com daspie@mnpower.com
BLANCHARD DAM near Royalton FAX: 218-626-0027	MN Power	Hydro Operator 218-725-2110 Nora Rosemore 218-725-2101	Royalton Gage #05267000 http://www.usace.army.mil/dcp/	1500 cfs @ Royalton	1081.7 ± 0.5' (NGVD, 1929)	No more than 10% change in flow in 2 hours	Remote control from Thomson Hydro near Duluth	nrosemore@mnpower.com daspie@mnpower.com
SARTELL DAM Sartell	Eagle Creek Renewable Energy	Kevin Winkelman 320-333-1254 cell 320-255-9852 home Jerry Schubert 320-290-0228 cell 320-393-4823 home	St. Cloud Gage # 5270700 http://www.usace.army.mil/dcp/	1700 cfs @ St. Cloud	1014.5 ± 0.5' (NGVD, 1929)	No more than 10% change in flow in 2 hours	Individual turbines are shut down as flows decrease. Gates #1 or #2 can be used to maintain minimum flows.	kevin.winkelman@eaglecreekre.com jerry.schubert@eaglecreekre.com
ST. CLOUD DAM St. Cloud FAX: 320-255-7221	City of St. Cloud	Daryl Stang 320-255-7229 Plant 320-253-9008 Home Office 320-248-2998 Mobile Phone	St. Cloud Gage # 5270700 http://www.usace.army.mil/dcp/	1700 @ St. Cloud	981.0 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 2 hours	License permits draw-down for maint. & repair (replace trip gates) w/ agreement from DNR. Attempt 10% change in 3 hours.	daryl.stang@ci.stcloud.mn.us
SHERCO	XCEL Energy	Jeff Berrington, Steve Bluhm 612-330-7530; 763-261-3133	St. Cloud Gage # 5270700 http://www.usace.army.mil/dcp/	1700 @ St. Cloud			500 cfs crucial for Sherco	nathan.french@xcelenergy.com steven.i.bluhm@xcelenergy.com
MONTECELLO		Nathan French - 763-295-1490 Monticello Duty Shift Manager 763-295-1051					at 860 cfs - St. Cloud - recirculate at 240 cfs - shut down plant	
COON RAPIDS DAM Coon Rapids FAX: 763-559-3287 (On-site FAX: 763-424-4628) approx. RM 866.2	Three Rivers Park District	Todd Beamish 612-490-0841 (cell) Tim Chambers 612-490-8246 (cell) Admin - Doug Berens 612-490-0809 (cell) 24/7 Maintenance on-call: 763-694-7867	@610 Bklyn Pk Gage # 5288500 http://www.usace.army.mil/dcp/	2300 cfs @610 Brklyn Pk	(by DNR permit) 830.1 ± 0.25' (NGVD, 1929)	No more than 10% change in flow in 2 hours	BOST1 Hydroelectric (Nelson Energy) holds a Preliminary Permit from FERC to develop hydroelectric power at Coon Rapids dam.	tbeamish@threeriversparkdistrict.org tchambers@threeriversparkdistrict.org dberens@threeriversparkdistrict.org
CITY OF ST. PAUL RM 862.8		Saint Paul Regional Water Services 651-266-1660 (24-hours)					upstream of 694 about 1 mile	jimgraupmann@ci.stpaul.mn.us
MPLS WATER WORKS - RM 858-859		Control Center (24-hour) 612-661-4949	at 610 Bklyn Pk Gage # 5288500 and Abv 37th Ave NE Gage #05288670				loss of suction at 795.9 approx. 80.55 cfs or 52 mgd	annika.bankston@minneapolismn.gov thomas.anderson@minneapolismn.gov
Riverside Generating Plant RM 856.8		Jim Bodenstener Cheryl Erler Steve Chapman	612-330-6625 612-520-6265 612-520-6805					James.J.Bodenstener@xcelenergy.com cheryl.erler@xcelenergy.com Steven.R.Chapman@xcelenergy.com
ST. ANTHONY UPPER LOCK & DAM Minneapolis below Central Avenue Bridge FAX: 612-378-0311 (NSP/XCEL) approx. RM 853.8	USACE	St. Paul Water Control Center: Farley Haase 651-290-5633	@610 Bklyn Pk Gage # 5288500 http://www.usace.army.mil/dcp/	2300 cfs @610 Brklyn Pk	799.2 ± 0.5' (MSLD 1912) (with flashboards)	No more than 10% change in flow in 2 hours	NSP responsible for maintaing pool elevation. Elevation data is available from NSP only during the day.	farley.r.haase@usace.army.mil James.J.Bodenstener@xcelenergy.com Scott.A.Croty@xcelenergy.com robert.w.olson@xcelenergy.com patrick.flowers@xcelenergy.com
	XCEL/NSP	Scott Crotty 715-737-1428						
	Crown Hydro	Jim Bodenstener 612-330-6625 Gary Monson 612-267-7688					FERC license P-11175 for Crown Hydro still developing.	gmonson@comcast.net
	Symphony Hydro	Bob Schulte 952-949-2676					FERC license P-14671 for Symphony Hydro still developing.	rhs@schulteassociates.com
	Dominium	Neal Route 763-354-5640					FERC license P-14628 for Dominium still developing.	routen@dominiuminc.com
ST. ANTHONY LOWER LOCK & DAM Minneapolis above Interstate 35W Bridge	USACE	St. Paul Water Control Center: Farley Haase 651-290-5633	@610 Bklyn Pk Gage # 5288500 http://www.usace.army.mil/dcp/	2300 cfs @610 Brklyn Pk	750.0 ± 0.5' (MSLD 1912)	No more than 10% change in flow in 2 hours or maintain the pool as best as possible	SAF Hydroelectric FERC License Application Project No. 12451 Commercial Operation Date 12/7/2011	farley.r.haase@usace.army.mil
	SAF Hydroelectric LLC	James Schwartz 612-412-7423						SAF Hydro Hydro Operator james.schwartz@brookfieldrenewable.com
LOCK & DAM #1 St. Paul & Minneapolis below Ford Parkway Bridge	USACE	St. Paul Water Control Center: Farley Haase 651-290-5633	@610 Bklyn Pk Gage # 5288500 http://www.usace.army.mil/dcp/	2300 cfs @610 Brklyn Pk	725.1 ± 0.3' (MSLD 1912) (with flashboards)	No more than 10% change in flow in 2 hours	Twin Cities Hydro responsible for maintaining pool elevation.	farley.r.haase@usace.army.mil
	Twin Cities Hydro Hydro Operator	Rick Troness 651-699-6277 Jeff Hathaway 651-226-0454 651-236-7548						Twin Cities Hydro Hydro Operations rick.troness@brookfieldrenewable.com Jeffrey.hathaway@brookfieldrenewable.com NO

STATEWIDE Emergency # (MN DUTY OFFICER): 1-800-422-0798 (Greater MN) Or 1-651-649-5451 (Metro)
 USGS Water Resources of MN: <http://mn.usgs.gov>
 USGS Gage Information listed by river: <http://waterdata.usgs.gov/mn/nwis/current/?types=flow>
 State Climatology Office: <http://www.mvp-wc.usace.army.mil/dcp/>
 USACE Emergency Management # 651-290-5204
 USACE 24-Hour Emergency # 651-290-5220
 NWS River Information for MN <http://water.weather.gov/ahps/region.php?state=mn>
 Click on relevant river gage point for
 - Current readings and forecast
 - Probabilistic forecast for low flow levels (click "how low can the water get" link)

Mspi Low Flow Mgmt Links: http://www.dnr.state.mn.us/waters/surfacewater_section/stream_hydro/mississippi_low_flow_links.html
 DNR Weekly Streamflow: http://www.dnr.state.mn.us/waters/surfacewater_section/stream_hydro/flowreports.html
 State Climatology Office: <http://climate.umn.edu>
 MNDNR Ecological and Water Resources Dam Safety Unit: 651-259-5715 (M - Fr, 8 - 4:30)

NOTE: All facilities in the salmon color are impacted by the St. Anthony Falls Upper Pool reservoir levels.