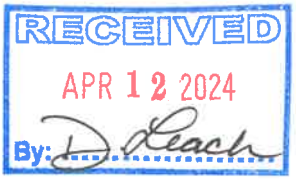
MACKINAC ISLAND

PLANNING COMMISSION ★ HISTORIC DISTRICT COMMISSION ★ BUILDING DEPARTMENT

April 12, 2024



Mayor Doud and City Council
City of Mackinac Island
PO Box 455
Mackinac Island, MI 49757

Dear Mayor and City Council:

At the regular meeting of the Planning Commission on April 9, 2024, a letter was read from Mike Heise, Cloverland, regarding the monthly breakdown of usage, for the last two years. The Planning Commission asked that I forward this letter to you, as promised, last month.

Sincerely,

Katie Pereny

Katie Pereny
Secretary, City of Mackinac Island Planning Commission

enclosures

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March 21, 2024

Mr. Michael Straus
Chairman – Planning Commission
City of Mackinac Island
7538 Market Street, PO Box 455
Mackinac Island, MI 49757

Dear Mr. Straus,

This letter is in response to your letter of March 13, 2024 asking on behalf of the City of Mackinac Island Planning Commission for a 2-year monthly breakdown/usage information for the island, usage data from the 2000 timeframe, the use/integrity of the cable from the 2000 incident, the longevity of the current system, and plans to update or expand service on Mackinac Island.

Attached to this letter are two documents (tables) that provide the usage information for; a) past 2-years monthly and b) the monthly data available from the 2002 timeframe (load data began being recorded in 2002).

Presently the cable system that failed from the 2000 incident remains in place, energized, although disconnected from the electrical network on Mackinac Island, yet quickly and efficiently available to be connected if system conditions warrant or would benefit service connection to the island. This cable has been identified to be retired and removed from the system at a future time that has yet to be determined. There currently are 2 other circuits (cables) that were subsequently installed in the 2000 timeframe (2000 and 2001) that provide electrical service to Mackinac Island. The longevity of the current cable system is expected to be a minimum of 40-50 years under normal conditions. Life/longevity of such modern cable systems of the time are understood to extended beyond this time with the fact that the cables are in freshwater vs saltwater, use of thermal sand for buried portions, exist within naturally cooler water/soil temperatures, and sustain normal electrical loading during their operational life.

Current plans to update or expand service on Mackinac Island are minimal presently, although we have a couple projects in developmental states that have not yet entered our construction work plan cycle. One is to update and expand the Pat Chambers switching station on Mackinac Island with modern switching equipment and electrical buss connectivity that can be remotely controlled in conjunction with system voltage upgrades. We just recently completed

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improvements during 2023 replacing existing equipment controls with our standard (modern) control units that have greater remote control and communications of data from the station. While not on the island, there are multiple projects we are currently in the design stages of involving St. Ignace mainland electrical network that improve the reliability and the resiliency to serve Mackinac Island from alternative sources. These projects have been identified to be budgeted and enter our next construction work plan cycle. This is not to say that other improvements on the island will not be occurring. There are a select number of which will be primarily driven by existing member system improvements/requests directly related to those specific members that we are not permitted to share. Some of these projects further support the need for improvements at Pat Chambers and system voltage that were mentioned above.

Again, as requested in our letter in February, we would certainly appreciate any information such as a community/commission 'master plan' that can be shared with us in return.

Sincerely,

Mike Heise

Cc: Brian Lavey, Paul Warner, Katie Pereny (via email correspondence/transmittal)

Encl: Mackinac Island Loading

Mackinac Island Loading

Month	Total MWh	Peak MW
Jan-22	4450	8.05
Feb-22	3983	7.91
Mar-22	3834	7.56
Apr-22	4103	8.85
May-22	4710	10.14
Jun-22	4534	9.39
Jul-22	4783	9.24
Aug-22	4722	9.40
Sep-22	4326	8.74
Oct-22	4813	10.78
Nov-22	2747	5.99
Dec-22	3610	6.69
Jan-23	3739	7.44
Feb-23	3672	8.32
Mar-23	3689	7.03
Apr-23	3789	8.46
May-23	4706	9.67
Jun-23	4645	10.03
Jul-23	4976	9.67
Aug-23	4804	9.33
Sep-23	4251	8.71
Oct-23	4814	9.57
Nov-23	3227	7.77
Dec-23	3364	8.23

Mackinac Island Loading

Month	Total MWh	Peak MW
Jan-02	NA	6.28
Feb-02	NA	5.04
Mar-02	NA	7.41
Apr-02	NA	11.11
May-02	NA	12.12
Jun-02	NA	10.74
Jul-02	NA	10.90
Aug-02	NA	10.74
Sep-02	NA	9.68
Oct-02	NA	11.00
Nov-02	NA	5.44
Dec-02	NA	5.53
Jan-03	NA	6.53
Feb-03	NA	6.83
Mar-03	NA	6.28
Apr-03	NA	7.91
May-03	NA	11.23
Jun-03	NA	11.08
Jul-03	NA	11.39
Aug-03	NA	10.60
Sep-03	NA	10.71
Oct-03	NA	12.32
Nov-03	NA	5.14
Dec-03	NA	5.05