

# Prairie Island Nuclear Generating Plant December 2020

## INDEPENDENT SPENT FUEL STORAGE INSTALLATION

### Introduction

This report provides data on radiation levels inside the Xcel Energy, Inc. Independent Spent Fuel Storage Installation (ISFSI) at the Prairie Island Nuclear Generating Plant (PINGP) for December 2020. The data contained in this report were gathered in accordance with agreements between Xcel Energy, Inc. and the Minnesota Department of Health (MDH).

At the end of December 2020, 47 casks were storing spent fuel inside the Independent Spent Fuel Storage Installation. The last cask to be moved to the Independent Spent Fuel Storage Installation was placed on May 28, 2020.

### Radiation Monitoring

MDH monitored radiation levels around the ISFSI from January 1995 to July 2015 using Pressurized Ionization Chambers (PICs). The PICs were located on the north and south end of the ISFSI. The PICs were replaced with new monitors that use a dual Geiger-Mueller (GM) tube system (a high range and low range GM tube). The new monitors are located in the same locations as the PICs. The new monitors were connected on September 30, 2015 and began logging data on October 20, 2015. The monitors average radiation level data over a 15 minute period and report that average value. This report contains the daily high and low of those readings as well as the average of those readings for each monitor.

### Analysis and Comments

Monitor 1 readings ranged from 0.152 mR/hr to 0.220 mR/hr. Monitor 2 readings ranged from 0.137 mR/hr to 0.255 mR/hr.

Additional monitoring data on radioactivity levels in other media (air, for example) are available in the annual Minnesota Department of Health "Environmental Radiation Data Report."

For more information, go to: [Environmental Monitoring \(https://www.health.state.mn.us/communities/environment/radiation/monitor/index.html\)](https://www.health.state.mn.us/communities/environment/radiation/monitor/index.html)

Minnesota Department of Health  
Radioactive Materials Unit  
[health.ram@state.mn.us](mailto:health.ram@state.mn.us)  
[www.health.state.mn.us](http://www.health.state.mn.us)

01/06/2021

*To obtain this information in a different format, call: 651-201-4000.*

**Table 1: December 2020 Data Report for Monitor 1**

<b>Date</b>	<b>Maximum Reading (mR/hr)</b>	<b>Minimum Reading (mR/hr)</b>	<b>Average Reading (mR/hr)</b>
12/1/20	0.181	0.154	0.163
12/2/20	0.174	0.155	0.164
12/3/20	0.171	0.153	0.162
12/4/20	0.172	0.153	0.162
12/5/20	0.179	0.153	0.163
12/6/20	0.178	0.153	0.162
12/7/20	0.172	0.154	0.163
12/8/20	0.177	0.153	0.163
12/9/20	0.177	0.153	0.164
12/10/20	0.173	0.152	0.163
12/11/20	0.182	0.156	0.164
12/12/20	0.177	0.155	0.163
12/13/20	0.176	0.153	0.164
12/14/20	0.172	0.154	0.162
12/15/20	0.176	0.154	0.163
12/16/20	0.174	0.152	0.162
12/17/20	0.184	0.154	0.163
12/18/20	0.175	0.156	0.164
12/19/20	0.174	0.155	0.164
12/20/20	0.183	0.157	0.164
12/21/20	0.177	0.154	0.164
12/22/20	0.178	0.153	0.164
12/23/20	0.202	0.157	0.170
12/24/20	0.220	0.158	0.174
12/25/20	0.205	0.158	0.169
12/26/20	0.179	0.157	0.167
12/27/20	0.175	0.158	0.166
12/28/20	0.177	0.158	0.166
12/29/20	0.188	0.159	0.169
12/30/20	0.190	0.159	0.167
12/31/20	0.186	0.157	0.168

**Table 2: December 2020 Data Report for Monitor 2**

<b>Date</b>	<b>Maximum Reading (mR/hr)</b>	<b>Minimum Reading (mR/hr)</b>	<b>Average Reading (mR/hr)</b>
12/1/20	0.171	0.153	0.163
12/2/20	0.175	0.157	0.163
12/3/20	0.178	0.155	0.164
12/4/20	0.174	0.155	0.163
12/5/20	0.175	0.153	0.163
12/6/20	0.175	0.156	0.164
12/7/20	0.178	0.153	0.163
12/8/20	0.177	0.156	0.164
12/9/20	0.179	0.155	0.164
12/10/20	0.174	0.156	0.164
12/11/20	0.177	0.154	0.163
12/12/20	0.173	0.154	0.163
12/13/20	0.173	0.157	0.163
12/14/20	0.175	0.154	0.161
12/15/20	0.171	0.138	0.153
12/16/20	0.161	0.137	0.146
12/17/20	0.158	0.139	0.146
12/18/20	0.160	0.139	0.147
12/19/20	0.160	0.137	0.147
12/20/20	0.167	0.141	0.148
12/21/20	0.162	0.139	0.147
12/22/20	0.155	0.139	0.146
12/23/20	0.163	0.141	0.151
12/24/20	0.191	0.142	0.153
12/25/20	0.183	0.139	0.153
12/26/20	0.171	0.140	0.151
12/27/20	0.170	0.142	0.152
12/28/20	0.178	0.142	0.152
12/29/20	0.255	0.142	0.154
12/30/20	0.169	0.140	0.151
12/31/20	0.168	0.142	0.152