

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

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 May 2019. 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 May 2019, 44 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 25, 2018.

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 0.140 mR/hr to 0.173 mR/hr. Monitor 2 readings ranged from 0.144 mR/hr to 0.183 mR/hr. Monitor 1 was replaced on May 23, 2019, which caused lost contact. The change out took approximately 30 minutes and contact was reestablished and resumed logging data.

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)

Minnesota Department of Health Radioactive Materials Unit health.ram@state.mn.us www.health.state.mn.us

6/3/19

To obtain this information in a different format, call: 651-201-4400. Printed on recycled paper.

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Table 1: May 2019 Data Report for Monitor 1

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Date	Maximum Reading (mR/hr)	Minimum Reading (mR/hr)	Average Reading (mR/hr)		
5/1/19	0.168	0.144	0.154		
5/2/19	0.163	0.148	0.154		
5/3/19	0.166	0.145	0.154		
5/4/19	0.161	0.140	0.154		
5/5/19	0.165	0.148	0.155		
5/6/19	0.167	0.148	0.155		
5/7/19	0.165	0.147	0.154		
5/8/19	0.168	0.148	0.156		
5/9/19	0.166	0.141	0.155		
5/10/19	0.169	0.147	0.154		
5/11/19	0.163	0.146	0.155		
5/12/19	0.166	0.147	0.153		
5/13/19	0.165	0.148	0.154		
5/14/19	0.167	0.149	0.156		
5/15/19	0.163	0.149	0.156		
5/16/19	0.171	0.148	0.159		
5/17/19	0.166	0.146	0.155		
5/18/19	0.165	0.146	0.155		
5/19/19	0.165	0.147	0.155		
5/20/19	0.166	0.145	0.154		
5/21/19	0.165	0.143	0.154		
5/22/19	0.169	0.146	0.156		
5/23/19	0.166	0.000	0.152		
5/24/19	0.163	0.147	0.154		
5/25/19	0.173	0.144	0.153		
5/26/19	0.164	0.146	0.154		
5/27/19	0.163	0.145	0.155		
5/28/19	0.165	0.145	0.153		
5/29/19	0.162	0.145	0.153		
5/30/19	0.170	0.145	0.154		
5/31/19	0.168	0.148	0.154		

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Table 2: May 2019 Data Report for Monitor 2

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Date	Maximum Reading (mR/hr)	Minimum Reading (mR/hr)	Average Reading (mR/hr)	
5/1/19	0.173	0.152	0.161	
5/2/19	0.171	0.152	0.159	
5/3/19	0.169	0.150	0.160	
5/4/19	0.170	0.153	0.161	
5/5/19	0.171	0.149	0.161	
5/6/19	0.172	0.153	0.160	
5/7/19	0.173	0.151	0.160	
5/8/19	0.177	0.150	0.162	
5/9/19	0.172	0.152	0.160	
5/10/19	0.170	0.151	0.159	
5/11/19	0.170	0.152	0.160	
5/12/19	0.175	0.151	0.159	
5/13/19	0.170	0.153	0.159	
5/14/19	0.170	0.148	0.160	
5/15/19	0.171	0.152	0.160	
5/16/19	0.183	0.151	0.162	
5/17/19	0.174	0.150	0.160	
5/18/19	0.174	0.152	0.161	
5/19/19	0.173	0.152	0.161	
5/20/19	0.179	0.151	0.160	
5/21/19	0.173	0.153	0.160	
5/22/19	0.172	0.144	0.160	
5/23/19	0.170	0.149	0.156	
5/24/19	0.164	0.148	0.155	
5/25/19	0.165	0.148	0.156	
5/26/19	0.169	0.147	0.156	
5/27/19	0.162	0.148	0.155	
5/28/19	0.166	0.146	0.155	
5/29/19	0.173	0.149	0.157	
5/30/19	0.172	0.147	0.157	
5/31/19	0.177	0.146	0.160	