

Safety Perfo	rmance Indicator Data Sheet		Revision date: May 2024				
Title: Chen	nistry Compliance Index (non-GSS and GSS)						
NPP:		Year:	Quarter:				

In Specification = IS# is the number of hours that the parameter is within specification defined by	the licensee documentation while each reactor unit is an operational state.
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Operational = $O_{\#}$ is the number	of hours that the parameter's	corresponding plant system	is operational as defined by	v licensee documentation w	while each reactor unit is an
operational state					

Parameter		Unit 0A	Unit 0B	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
safety system poison	$IS_1$										
	$O_1$										
[Gd] in moderator (unit in poison outage after SDS2 actuated)	IS <sub>2</sub>										
	$O_2$										
Moderator D <sub>2</sub> O isotopoic	IS <sub>3</sub>										
	O <sub>3</sub>										
Moderator <sup>3</sup> H	IS <sub>4</sub>										
	O <sub>4</sub>										
Moderator cover gas D <sub>2</sub>	IS <sub>5</sub>										
	O <sub>5</sub>										
Moderator conductivity	IS <sub>6</sub>										
	$O_6$										
	IS <sub>7</sub>										
	O <sub>7</sub>										

<ul> <li>D<sub>2</sub> in cover gas of primary heat transport</li> <li>D<sub>2</sub>O storage tank</li> <li>Moderator to primary heat transport system</li> <li>D2O isotopic purity difference check</li> <li>Annulus gas system dew point</li> <li>End shield cooling water pH</li> <li>End shield cooling cover gas H2 (for Point</li> </ul>	IS <sub>8</sub>					
	$O_8$					
Primary heat transport	IS <sub>9</sub>					
121	O <sub>9</sub>					
D <sub>2</sub> in cover gas of	$IS_{10}$					
primary heat transport	O <sub>10</sub>					
Moderator to primary	IS <sub>11</sub>					
D2O isotopic purity	O <sub>11</sub>					
Annulus gas system dew	IS <sub>12</sub>					
	O <sub>12</sub>					
End shield cooling water	IS <sub>13</sub>					
	O <sub>13</sub>					
End shield cooling cover	IS <sub>14</sub>					
gas H2 (for Point Lepreau, Pickering 5-8)	O <sub>14</sub>					
ECI or ECC high-	IS <sub>15</sub>					
pressure water tanks pH	O <sub>15</sub>					
ECI or ECC high-	IS <sub>16</sub>					
pressure tank(s) hydrazine concentration	O <sub>16</sub>					
Liquid zone control cover	IS <sub>17</sub>					
gas [H2]	O <sub>17</sub>					
Liquid zone control	IS <sub>18</sub>					
conductivity	O <sub>18</sub>					
Total hours in specification during non- GSS						
Total hours in operation during non-GSS						
Non-GSS Chemistry Compliance Index (%)					 	 

## Guaranteed shutdown state (GSS)

In Specification = IS<sub>#</sub> is the number of hours that the parameter is within specification defined by the licensee documentation while each reactor unit is an operational state.

Operational = O<sub>#</sub> is the number of hours that the parameter's corresponding plant system is operational as defined by licensee documentation while each reactor unit is an operational state

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Parameter		Unit 0A	Unit 0B	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Liquid injection safety system poison injection tanks pH <sub>2</sub> (when SDS2 is available)	$IS_1$										
	<b>O</b> <sub>1</sub>										
	$IS_2$										
[Gd] in moderator	O <sub>2</sub>										
Moderator D <sub>2</sub> O	IS <sub>3</sub>										
conductivity	O <sub>3</sub>										
Moderator D <sub>2</sub> O pH <sub>a</sub>	IS <sub>4</sub>										
	O <sub>4</sub>										
Supplementary	$IS_5$										
parameter(s) sampled	O5										
	IS <sub>6</sub>										
	O <sub>6</sub>										
	IS <sub>7</sub>										
	O <sub>7</sub>										
	$IS_8$										
	$O_8$										
	O <sub>13</sub>										
Total hours in specification during GSS											
Total hours in operation during GSS											
GSS Chemistry Compliance Index (%)											

Chemistry Com Index (%)	pliance					
	Additional details a	as required:		 		
	Prepared by:		 ate:	 		