

Comparison chart for amendment of safety regulations on nuclear reactor facilities
for Kashiwazaki-Kariwa Nuclear Power Station (1 / 2)

Before amendment	After amendment	Note																																
<p>(Emergency diesel generator, 2) Article 61 During cold shutdown and fuel replacement, plant operation restrictions on emergency diesel generators are set as Table 61-1. 2. To confirm if emergency diesel generators meets the restrictions above, the organization will conduct the following work. (1) During cold shutdown and fuel replacement, shift supervisors confirms items defined in Table 61-2 with regard to emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66. 3. If a shift supervisor judges that emergency diesel generators do not meet requirements set in Paragraph (1), actions in Table 61-3 must be taken.</p> <p>Table 61-1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Item</th> <th>Restriction on operation</th> </tr> </thead> <tbody> <tr> <td>AC Power Source</td> <td>Emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66 must be operable.</td> </tr> </tbody> </table> <p>(omitted)</p> <p>Table 61-3</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Case</th> <th style="width: 60%;">Actions to be required</th> <th style="width: 25%;">Completi on</th> </tr> </thead> <tbody> <tr> <td rowspan="4">A. <u>Emergency diesel generators required are not operable.</u></td> <td>A1. Start restoring emergency diesel generators required</td> <td>swiftly</td> </tr> <tr> <td>A2. Stop the replacement work of reactors</td> <td>swiftly</td> </tr> <tr> <td>A3. Stop works associated with fuels in the reactor building</td> <td>swiftly</td> </tr> <tr> <td>A4. Restrict the opening of separation valve of pipes connected to reactor pressure vessel at lower than the top of effective fuel.</td> <td>swiftly</td> </tr> </tbody> </table>	Item	Restriction on operation	AC Power Source	Emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66 must be operable.	Case	Actions to be required	Completi on	A. <u>Emergency diesel generators required are not operable.</u>	A1. Start restoring emergency diesel generators required	swiftly	A2. Stop the replacement work of reactors	swiftly	A3. Stop works associated with fuels in the reactor building	swiftly	A4. Restrict the opening of separation valve of pipes connected to reactor pressure vessel at lower than the top of effective fuel.	swiftly	<p>(Emergency diesel generator, 2) Article 61 During cold shutdown and fuel replacement, plant operation restrictions on emergency diesel generators*¹ are set as Table 61-1. 2. To confirm if emergency diesel generators meets the restrictions above, the organization will conduct the following work. (1) During cold shutdown and fuel replacement, shift supervisors confirms items defined in Table 61-2 with regard to emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66. 3. If a shift supervisor judges that emergency diesel generators do not meet requirements set in Paragraph (1), actions in Table 61-3 must be taken.</p> <p>※ 1 : <u>emergency diesel generators of System A, System B or High Voltage Reactor Spray System(System C at Unit 6 and 7)</u></p> <p>Table 61-1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Item</th> <th>Restriction on operation</th> </tr> </thead> <tbody> <tr> <td>AC Power Source</td> <td><u>2 emergency generators*² including</u> emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66 must be operable.</td> </tr> </tbody> </table> <p>※ 2 : <u>emergency generators that are capable of supplying necessary electricity and may be utilized for multiple units</u></p> <p>(omitted)</p> <p>Table 61-3</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Case</th> <th style="width: 60%;">Actions to be required</th> <th style="width: 25%;">Completi on</th> </tr> </thead> <tbody> <tr> <td rowspan="4">A. <u>It is judged that restrictions on operation are not met.</u></td> <td>A1. Start implementing measures <u>to meet the restriction on operation</u></td> <td>swiftly</td> </tr> <tr> <td>A2. Stop the replacement work of reactors</td> <td>swiftly</td> </tr> <tr> <td>A3. Stop works associated with fuels in the reactor building</td> <td>swiftly</td> </tr> <tr> <td>A4. Restrict the opening of separation valve of pipes connected to reactor pressure vessel at lower than the top of effective fuel.</td> <td>swiftly</td> </tr> </tbody> </table>	Item	Restriction on operation	AC Power Source	<u>2 emergency generators*² including</u> emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66 must be operable.	Case	Actions to be required	Completi on	A. <u>It is judged that restrictions on operation are not met.</u>	A1. Start implementing measures <u>to meet the restriction on operation</u>	swiftly	A2. Stop the replacement work of reactors	swiftly	A3. Stop works associated with fuels in the reactor building	swiftly	A4. Restrict the opening of separation valve of pipes connected to reactor pressure vessel at lower than the top of effective fuel.	swiftly	<p>•Amendment to reflect the order "Regarding interpretation of safety regulations on emergency generating facilities: an order"</p>
Item	Restriction on operation																																	
AC Power Source	Emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66 must be operable.																																	
Case	Actions to be required	Completi on																																
A. <u>Emergency diesel generators required are not operable.</u>	A1. Start restoring emergency diesel generators required	swiftly																																
	A2. Stop the replacement work of reactors	swiftly																																
	A3. Stop works associated with fuels in the reactor building	swiftly																																
	A4. Restrict the opening of separation valve of pipes connected to reactor pressure vessel at lower than the top of effective fuel.	swiftly																																
Item	Restriction on operation																																	
AC Power Source	<u>2 emergency generators*² including</u> emergency diesel generators connected to emergency high voltage AC buses which are required in Article 66 must be operable.																																	
Case	Actions to be required	Completi on																																
A. <u>It is judged that restrictions on operation are not met.</u>	A1. Start implementing measures <u>to meet the restriction on operation</u>	swiftly																																
	A2. Stop the replacement work of reactors	swiftly																																
	A3. Stop works associated with fuels in the reactor building	swiftly																																
	A4. Restrict the opening of separation valve of pipes connected to reactor pressure vessel at lower than the top of effective fuel.	swiftly																																

Comparison chart for amendment of safety regulations on nuclear reactor facilities
for Kashiwazaki-Kariwa Nuclear Power Station (2 / 2)

Before amendment	After amendment	Note
<p>Supplementary provision (June 14th, 2010 Heisei 22/05/26 Gen 3rd issue)</p> <p>(Enforcement date)</p> <p>Article 1</p> <p style="padding-left: 20px;">This provision will take effect <u>from July 1st, 2010.</u></p> <p>(omitted)</p>	<p>Supplementary provision (_____ , _____ Heisei / / Gen issue)</p> <p>(Enforcement date)</p> <p>Article 1</p> <p style="padding-left: 20px;">This provision will take effect <u>within 10 days after approved by Minister of Economy, Trade and Industry.</u></p> <p><u>2. Article 61 stipulates that emergency diesel generators for other unit or portable generators can be regarded as emergency generators as long as they are capable of supplying necessary electricity before the operation of emergency generators.</u></p> <p>(omitted)</p>	<ul style="list-style-type: none"> • Enforcement date is stipulated in supplementary provision 1-1. • Provisional measures are stipulated in supplementary provision 1-2.