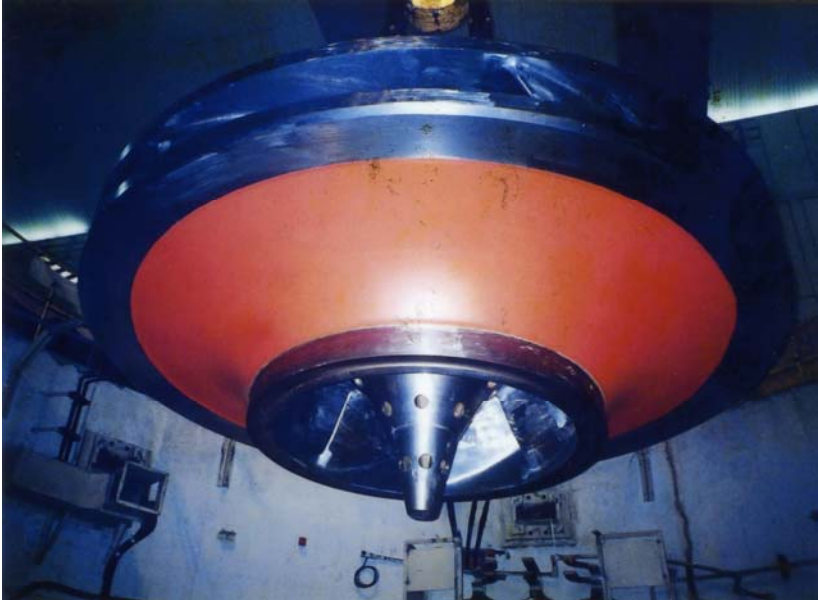


Registration No.	Number 00037		
Registration Date	October 6, 2009	Registration Category	Category 2
Name (Model, etc.)	Vertical shaft, spiral, single runner, single discharge Francis type, reversible pump-turbine (VFR-1RS) in Numappara Power Station		
Location	Nasushiobara City, Tochigi Pref		
	Electric Power Development CO., Ltd. East Regional Headquarter Numappara Power Administration Office		
Owner (Custodian)	Electric Power Development CO., Ltd.		
Manufacturer (Company)	Hitachi, Ltd.		
Year Manufactured	1972		
Reason For Selection	<p>This is a high head pump turbine for a pumped storage power plant. Japan has led the world in boosting the head height of pumped storage power plants, and this high head pump turbine was developed to meet this need. For the first time in Japan, high nickel 13% chromium integral cast steel was used for the runner material, which permitted the operating head of the runner to be extended from the previous world record of 400 meters to 528 meters. This is significant for demonstrating Japan's originality in science and technology to the world.</p>		
Registration Standard	1 - B		

Open/Closed to Public	Open to Public with Condition
Photo	
Other useful information	Photo was taken in the early stages of construction when the runner was installed, so the actual runner cannot be seen.