

REQUESTOR NAME; Vanport Sterilizers Inc

INFORMATION REQUEST ROUND NO.2

TO; BC HYDRO; DATE; March 6, 2012

APPLICATION NAME; Amended F12-F14 RRA – Project No. 3698622/Order G-40-11

1.0 - Topic: Mainland to Vancouver Island Transmission Line(s)

1.1 For the purpose of planning new pumped storage capacity on Vancouver Island, what is the available average 'off-peak' import transmission capacity from the mainland?

1.2 Does BC Hydro agree that the route of the long-proposed Mainland-to-Campbell River Railway (MCR) could also be a suitable power transmission corridor to/from Vancouver Island?

1.3 Given that a base load generator could easily 'switch' to power a JOR storage-connected desalination plant, electrolytic hydrogen production plant, or, a Compressed Air Energy Storage plant, then, does BC Hydro agree that the proposed Juan de Fuca underwater transmission line would be a more practical and cost-effective alternative to BC Hydro imports of excess wind energy that could otherwise base load the storage, thereby 'opening-up' market capacity and ensure better pricing for excess wind turbine generation?

2.0 - Topic; Colwood Area Transmission Upgrade

2.1 Would BC Hydro consider expanding its definition of "Non-Wire Alternatives" to include customer or merchant-supplied energy storage capacity?

2.2 Would BC Hydro consider enabling a merchant operator with comparable transmission or energy storage capacity to displace the need for the upgrade?

2.3 Given that the existing JOR hydroelectric project provides 170 MW of critical capacity but has a load factor of only 15% due to limited inflow, then, what is the resulting 'fuel' value to BC Hydro if an additional average inflow of 100 Million Litres Day of high quality reclaimed wastewater could be made 'freely' available or delivered as needed for meeting peak loads?

2.4 With respect to re-building/expanding the decommissioned JOR feeder reservoir that is located at 310 M elevation (i.e. similar to the Seawater Demonstration Project in Okinawa, Japan that has a comparable L/H ratio at 136 M elevation) then, does BC Hydro have objections against a merchant developer applying for storing seawater and/or reclaimed wastewater in this reservoir if it is re-built with separate intake, tunnel, penstock, turbine, tailrace and generator facilities that would not integrate with, or otherwise constitute a threat to, the existing system?