

1 Q. Further to IC-NLH-162: Please provide a list of dates and durations since 2012 when
2 Frequency Converter was not available, and reason for unavailability.

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5 A. Please see IC-NLH-196 Attachment 1.

Corner Brook Frequency Converter Availability 2012- 2015 (to April 29)				
Year	Date/Time	Duration	State/Value	Description
2012	1/6/2012 11:34	3 hrs 49 mins	Stop	FC shutdown to add oil to T2. (Added oil).
	1/6/2012 15:23		Start	
	3/9/2012 12:32	1680 hrs 28 mins	Stop	Tripped due to failed wall bushing. Worked with CBPP and replaced wall bushings. Completed PM inspection work as well.
	5/18/2012 13:00		Start	
	10/2/2012 8:15	55 hrs 54 mins	Stop	Shutdown to perform Unit PM inspection. Checked T1 & T2, Modified protection circuit.
	10/4/2012 16:09		Start	
2013	1/11/2013 7:42	6 hrs 35 mins	Stop	Tripped. Major system outage on the island.
	1/11/2013 14:17		Start	
	8/7/2013 8:57	32 hrs 41 mins	Stop	Planned Outage. (Investigate/Repair T2 oil leak, Obtain oil sample from 152T).
	8/8/2013 17:38		Start	
	9/23/2013 12:34	99 hrs 17 mins	Stop	T1 PM, T1 Doble, Investigate T1 Oil Leak, Investigate 252T Alarms. Change Conservator Low Level Trip to Alarm, Replace Filter Clips.
	9/27/2013 15:51		Start	
2014	2/5/2014 8:31	98 hrs 44 mins	Stop	Outage for contractor to inspect frequency converter for the Vibration Monitoring Project. Perform CM work. Problems with 50 cycle end. Poles with loose wedges. Repairs completed unit synched for testing. Tests completed and unit released for service. DLP raising unit to 18-19 MW and no longer taking power from Hydro.
	2/9/2014 11:15		Start	
	4/22/2014 7:51	30 hrs 13 mins	Stop	Unit PM Inspection
	4/24/2014 14:05		Start	
	9/22/2014 9:01	889 hrs 53 mins	Stop	Modify T2 Protection, T2 Setting Changes, Replace T2 Tap Changer Oil Level Gauge, Replace T2 Low Side Bushings, Top Up T2 Oil, T2 PM, T2 Doble, 152T Doble & Function Test, and unit PM inspection. Unit tripped on energizing, resulting in follow up testing and T2 Internal Inspection (Windings Shifted). Remove T2 & Install Temporary Water Cooled unit from CBPP.
	10/29/2014 10:54		Start	
2015	3/25/2015 8:41	7 hrs 24 mins	Stop	Change Brushes.
	3/25/2015 16:05		Start	
	3/31/2015 11:20	1 hr 23 mins	Stop	Install new emergency stop.
	3/31/2015 12:43		Start	
	4/8/2015 8:28	49 hrs 32 mins	Stop	Install starting motor, Completed PM inspection work, and Condition assessment by Siemens.
	4/10/2015 10:00		Start	