

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 3204
NamNgum-1, Date: 31 AUG 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 31/08/2018 at 08:00 AM

1. Reservoir water level and Tail water level
 - Reservoir water level 212.58 m.asl, Reservoir water Volume = 7,199,384,000 m³ , Water level has increased 14 cm compared to 08:00 am yesterday morning
 - Tail water level 171.92 m.asl has increased 57 cm compared to 08:00 am yesterday morning
2. Reservoir Inflow and Outflow of NamNgum-1 HPP
 - A. Reservoir Inflow = 2,197.6 m³/s = 189,869,817 m³/day
 - All amount included: - inflow from NNG-2 = 882.2 m³/s = 76,220,000 m³/day
 - (At 13:45 PM 30/08/2018, the Height of Spillways gate opened has been increased from 0 m to 1.8 m, at 21:00 PM, the Height of Spillways gate opened has been increased from 1.8 m to 2.1 m)
 - inflow from others sources = 1,315.4 m³/s = 113,650,560 m³/day
 - B. Reservoir Outflow = 1,669.9 m³/s = 144,279,360 m³/day
 - All amount included: - Turbines Discharge = 533.5 m³/s = 46,097,208 m³/day
 - Spillway Discharge = 1,136.4 m³/s = 98,183,009 m³/day
 - At 12:15 PM 30/08/2018, the Height of Spillways gate opened has been increased from 2.6 m to 2.8 m, At 13:00 PM, the Height of Spillways gate opened has been increased from 2.8 m to 3.0 m, Spillways discharge = 1,136.4 m³/s
 - Rainfall at NamNgum1 Raingauge is 39.75 mm
 - C. Pak ka ngoung gauge the water level at 11.45 m
 - Flow at Pak ka ngoung gauge Qpn = 3,145.6 m³/s
 - All amount included: - Flow from NamNgum 1 (Qng1) = 1,669.9 m³/s
 - Flow from Nam Song River (Qns) = 605.3 m³/s
 - Flow fom Nam Lik1-2 (Qnl1-2) = 399.1 m³/s
 - (At 14:00 PM 30/08/2018, the Height of Spillways gate opened has been decreased from 2.5 m to 2.0 m)
 - Flow from others small tributeries (Q) = 471.3 m³/s
3. Reservoir Water Balance (A-B) = 527.7 m³/s = 45,593,280 m³/day
Therefore : Reservoir water level has increased 14 cm/Day
4. Streamgauge data along NL and NNG Downstream River compared to 08:00 AM yesterday morning as follow:
 - Water level at Hinhuep guage is 8.99 m it is seen that water level has increased 1.63 m
 - Water level at Pak ka ngoung guage is 11.45 m at 08:00 am it is seen that water level has increased 1.05 m
 - Water level at Bounghphao gauge has increased 20 cm compared to 08:00 am yesterday morning
 - Water level at Ban Cheng gauge has increased 20 cm compared to 08:00 am yesterday morning
 - Water level at Ban Choom gauge has increased 16 cm compared to 08:00 am yesterday morning
 - Water level at Ban Tanpiow gauge does not change compared to 08:00 am yesterday morning
 - Water level at Ban Hatsuan gauge has increased 8 cm compared to 08:00 am yesterday morning
 - Water level at Vernkham guage is 12.90 m at 08:00 am it is seen that water level has increased 6 cm

Remarks

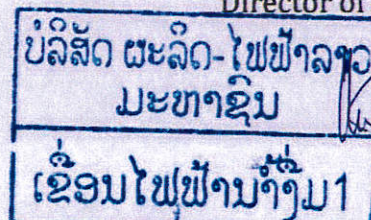


Reservoir Water Level

Normal level = 212.0 m.asl
Full supply Level = 212.3 m.asl
Warning level = 214.0 m.asl
Dangerous level = 215.0 m.asl

Tail water level

167.50 m.asl
172.00 m.asl
173.00 m.asl
175.00 m.asl



Director of NamNgum-1 HPP

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Director