

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 3.17.6
NamNgum-1, Date: 9 AUG 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 29/08/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.46 m.asl, Reservoir water Volume = 7,160,306,400 m³ , Water level has increase 2 cm compared to 08:00 am yesterday morning
- Tail water level 171.50 m.asl has decreased 20 cm compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 1,828.8 m³/s = 158,011,744 m³/day

All amount included: -inflow from NNG-2 = 1,594.1 m³/s = 137,730,000 m³/day

(At 15:00 PM 28/09/2018 has reduced highed of Spillways gate opened from 2.4 m to 1.8 m)

- inflow from others sources = 234.7 m³/s = 20,281,536 m³/day

B. Reservoir Outflow = 1,753.4 m³/s = 151,498,944 m³/day

All amount included: - Turbines Discharge = 594.2 m³/s = 51,344,352 m³/day

- Spillway Discharge = 1,159.2 m³/s = 100,154,592 m³/day

- At 15:00 am 26/08/2018, the Height of Spillways gate opened has been decreased from 3.3 m to 3.0 m, Spillways discharge = 1,152.6 m³/s

- Rainfall at NamNgum1 Raingauge is 8.75 mm

C. Pak ka ngoung gauge the water level at 11.18 m

- Flow at Pak ka ngoung gauge Qpn= 3,021.6 m³/s

All amount included: - Flow from NamNgum 1 (Qng1)= 1,753.4 m³/s

- Flow from Nam Song River (Qns) = 422.1 m³/s

- Flow fom Nam Lik1-2 (Qnl1-2)= 427.4 m³/s (increased spillway gate opened from 2.0 m to 2.5m)

- Flow from others small tributeries (Q) = 418.6 m³/s

3. Reservoir Water Balance (A-B) = 75.4 m³/s = 6,512,832 m³/day

Therefore : Reservoir water level has decreased 2 cm/Day

4. Streamgauge data along NNG Downstream River compared to 08:00 AM yesterday morning as follow:

- Water level at Hinhuep guage is 7.72 m it is seen that water level has increased 36 cm
- Water level at Pak ka ngoung guage is 11.8 m at 08:00 am it is seen that water level has decreased 8 cm
- Water level at Bounphao gauge has decreased 5 cm compared to 08:00 AM yesterday morning
- Water level at Ban Cheng gauge has decreased 10 cm compared to 08:00 AM yesterday morning
- Water level at Ban Choom gauge cannot contact
- Water level at Ban Tanpiow gauge has increased 7 cm compared to 08:00 AM yesterday morning
- Water level at Ban Hatsuan gauge has increased 7 cm compared to 08:00 AM yesterday morning
- Water level at Vernkham guage is 12.78 m at 08:00am it is seen that water level has increased 7 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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