

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 1463...
NamNgum-1, Date:
19 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 19/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.45 m.asl, Reservoir water Volume = 7,157,049,998 m³ , Water level has increased 3 cm compared to 08:00 am yesterday morning
- Tail water level 168.20 m.asl has increased 10 cm compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 788.9 m³/s = 68,156,232 m³/day

All amount included: - inflow from NNG-2 = 426.6 m³/s = 36,860,000 m³/day

(At 11:00Am 15/09/2018, the Height of Spillways gate opened has been reduced from 90 cm to 0 m)

- inflow from others sources = 362.3 m³/s = 31,302,720 m³/day

B. Reservoir Outflow = 675.8 m³/s = 58,389,120 m³/day

All amount included: - Turbines Discharge = 551.1 m³/s = 47,610,360 m³/day

- Spillway Discharge = 124.7 m³/s = 10,776,672 m³/day

(At 08:35 Am 17/09/2018, the Height of Spillways gate opened has been reduced from 50 cm to 30 cm, Spillways discharge = 124.7 m³/s

- Rainfall at NamNgum 1 Raingauge is 15.0 mm

C. Pak ka ngoung gauge the water level at 7.32 m

• Flow at Pak ka ngoung gauge (Qpn) = 1,473.2 m³/s

All amount included: - Flow from NamNgum 1 (Qng1) = 675.8 m³/s

- Flow from Nam Song River (Qns) = 283.8 m³/s

- Flow fom Nam Lik1-2 (Qnl1-2) = 141.7 m³/s

(At 11:00 AM 8/09/2018, the Height of Spillways gate opened has been reduced from 1.0 m to 50 cm)

- Flow from others small tributeries (Q) = 371.9 m³/s

3. Reservoir Water Balance (A-B) = 113.1 m³/s = 9,771,840 m³/day

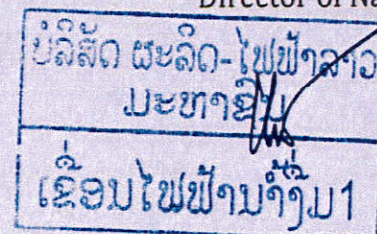
Therefore : Reservoir water level has increased 3 cm /Day

4. Streamgauge data along Namlik river and NamNgum Downstream River compared to 08:00 AM yesterday morning as follow:

- Water level at Hinhuep gauge no data
- Water level at Pakkangoung gauge is 7.32 m at 08:00 am it is seen that water level has increased 4 cm (7.28 m)
- Water level at Bounphao gauge has no data (the water Level has Lower Measurement gauge)
- Water level at Ban Cheng gauge has no data (the water Level has Lower Measurement gauge)
- Water level at Ban Choom gauge has no data (the water Level has Lower Measurement gauge)
- Water level at Ban Tanpiow gauge has no data (the water Level has Lower Measurement gauge)
- Water level at Ban Hatsuan gauge has no data (the water Level has Lower Measurement gauge)
- Water level at Vernkham gauge is 9.94 m at 08:00 am it is seen that water level has decreased 46 cm (10.40 m)

Director of NamNgum-1 HPP

Remarks	Reservoir Water Level	Tail water level
Dangerous level	= 215.0 m.asl	175.00 m.asl
Warning level	= 214.0 m.asl	173.00 m.asl
Full supply Level	= 212.3 m.asl	172.00 m.asl
Normal level	= 212.0 m.asl	167.50 m.asl



Buavanh CHANSAVATH
Director