

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 3305.....
NamNgum-1, Date:
05 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 5/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 213.01 m.asl, Reservoir water Volume = 7,339,411,400 m³ , Water level has increased 3 cm compared to 08:00 am yesterday morning
- Tail water level 173.20 m.asl has increased 1.2 m compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 2,313.2 m³/s = 199,857,660 m³/day

All amount included: - inflow from NNG-2 = 1,407 m³/s = 121,570,000 m³/day

(At 15:00 PM 4/09/2018, the Height of Spillways gate opened has been decreased from 2.1 m to 1.5 m)

- inflow from others sources = 906.2 m³/s = 78,295,680 m³/day

B. Reservoir Outflow = 2,200.0 m³/s = 190,088,460 m³/day

All amount included: - Turbines Discharge = 547.1 m³/s = 47,271,384 m³/day

- Spillway Discharge = 1,652.9 m³/s = 142,817,076 m³/day

- At 22:00 Pm 4/09/2018, the Height of Spillways gate opened has been increased from 4.3 m to 4.5 m, Spillways discharge = 1,652.9 m³/s

- Rainfall at NamNgum1 Raingauge is 32.0 mm

C. Pak ka ngoung gauge the water level at 12.50 m

- Flow at Pak ka ngoung gauge (Qpn) = 3,646.4 m³/s

All amount included: - Flow from NamNgum 1 (Qng1) = 2,200.0 m³/s

- Flow from Nam Song River (Qns) = 537.4 m³/s

- Flow fom Nam Lik1-2 (Qnl1-2) = 287.2 m³/s

(At 13:00 PM 1/09/2018, the Height of Spillways gate opened has been reduced from 2.0 m to 1.5 m)

- Flow from others small tributeries (Q) = 621.8 m³/s

3. Reservoir Water Balance (A-B) = 113.2 m³/s = 9,780,480 m³/day

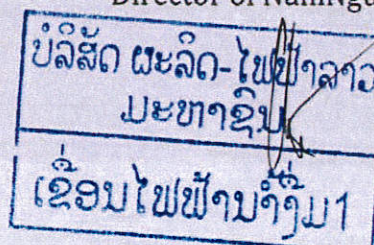
Therefore : Reservoir water level has increased 3 cm/Day

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

- Water level at Hinhuiep gauge is 11.10 m at 08:00 am it is seen that water level has increased 2.5 m (8.6 m)
- Water level at Pakkangoung gauge is 12.50 m at 08:00 am it is seen that water level has increased 1 m (11.5m)
- Water level at Bounghphao gauge has increased 35 cm compared to 08:00 am yesterday morning
- Water level at Ban Cheng gauge has increased 50 cm compared to 08:00 am yesterday morning
- Water level at Ban Choom gauge can not contact
- Water level at Ban Tanpiow gauge has increased 71 cm compared to 08:00 am yesterday morning
- Water level at Ban Hatsuan gauge has increased 50 cm compared to 08:00 am yesterday morning
- Water level at Vernkham gauge is 13.24m at 08:00 am it is seen that water level has increased 12 cm (13.12)

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

Director of NamNgum-1 HPP



Buavanh CHANSAVATH
Director