

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No: 3320
NamNgum-1, Date: 07 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 7/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.66 m.asl, Reservoir water Volume = 7,225,435,400 m³ , Water level has decreased 15 cm compared to 08:00 am yesterday morning
- Tail water level 171.60 m.asl has decreased 110m compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 1,219.4 m³/s = 105,359,424 m³/day
All amount included: - inflow from NNG-2 = 642.1 m³/s = 54,480,000 m³/day
(At 21:45 PM 6/09/2018, the Height of Spillways gate opened has been increased from 0 m to 1.2 m)

- inflow from others sources = 577.3 m³/s = 49,878,720 m³/day

B. Reservoir Outflow = 1,784.8 m³/s = 154,205,424 m³/day

All amount included: - Turbines Discharge = 543.6 m³/s = 46,963,224 m³/day

- Spillway Discharge = 1,241.2 m³/s = 107,242,200 m³/day

- At 16:00 Pm 6/09/2018, the Height of Spillways gate opened has been reduced from 3.5 m to 3.0 m, Spillways discharge = 1,241.2 m³/s

- Rainfall at NamNgum1 Raingauge is 0 mm

C. Pak ka ngoung gauge the water level at 11.46 m

• Flow at Pak ka ngoung gauge (Qpn) = 3,150.3 m³/s

All amount included: - Flow from NamNgum 1 (Qng1) = 1,784.8 m³/s

- Flow from Nam Song River (Qns) = 316.6 m³/s

- Flow fom Nam Lik1-2 (Qnl1-2) = 215.9 m³/s

(At 14:00 PM 6/09/2018, the Height of Spillways gate opened has been reduced from 1.5 m to 1.0 m)

- Flow from others small tributeries (Q) = 833.0 m³/s

3. Reservoir Water Balance (A-B) = - 565.4 m³/s = - 48,850,560 m³/day

Therefore : Reservoir water level has decreased 15 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 is 7.85 m at 08:00 am it is seen that water level has decreased 82 cm (8.67 m)
- Water level at Pakkangoung gauge is 11.46 m at 08:00 am it is seen that water level has decreased 82cm(12.28m)
- Water level at Bounphao gauge has decreased 45 cm compared to 08:00 am yesterday morning
- Water level at Ban Cheng gauge has decreased 15 cm compared to 08:00 am yesterday morning
- Water level at Ban Choom gauge no data
- Water level at Ban Tanpiow gauge has decreased 5 cm compared to 08:00 am yesterday morning
- Water level at Ban Hatsuan gauge has decreased 10 cm compared to 08:00 am yesterday morning
- Water level at Vernkham gauge is 13.67 m at 08:00 am it is seen that water level has increased 17 cm (13.50m)

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