

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : ...^{3.9.18}...
NamNgum-1, Date: 03 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 3/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.85 m.asl, Reservoir water Volume = 7,287,308,000 m³ , Water level has increased 3 cm compared to 08:00 am yesterday morning
- Tail water level 171.40 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 = 1,760.6 m³/s = 152,116,224 m³/day
 All amount included: - inflow from NNG-2 = 1,286.3 m³/s = 111,140,000 m³/day
 (At 10: 00 AM 2/09/2018, the Height of Spillways gate opened has been decreased from 2.1 m to 1.2 m)

- inflow from others sources = 474.3 m³/s = 40,979,520 m³/day

B. Reservoir Outflow = 1,647.5 m³/s = 142,347,024 m³/day
 All amount included: - Turbines Discharge = 522.6 m³/s = 45,151,200 m³/day
 - Spillway Discharge = 1,124.9 m³/s = 97,195,824 m³/day
 - At 15:25 PM 2/09/2018, the Height of Spillways gate opened has been increased from 2.5 m to 3.0 m, Spillways discharge = 1,183.9 m³/s
 - Rainfall at NamNgum1 Raingauge is 0 mm

C. Pak ka ngoung gauge the water level at 11.05 m

- Flow at Pak ka ngoung gauge Qpn = 2,962.6 m³/s

All amount included: - Flow from NamNgum 1 (Qng1) = 1,647.5 m³/s
 - Flow from Nam Song River (Qns) = 440.6 m³/s
 - Flow fom Nam Lik1-2 (Qnl1-2) = 286.4 m³/s
 (At 13:00 PM 1/09/2018, the Height of Spillways gate opened has been decreased from 2.0 m to 1.5 m)
 - Flow from others small tributeries (Q) = 588.1 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 NL and NNG Downstream River compared to 08:00 AM yesterday morning as follow:

- Water level at Hinhuiep gauge is 6.73 m it is seen that water level has decreased 43 cm
- Water level at Pak ka ngoung gauge is 11.05 m at 08:00 am it is seen that water level has decreased 3 cm
- Water level at Boungphao gauge has decreased 10 cm compared to 08:00 am yesterday morning
- Water level at Ban Cheng gauge can not contact
- Water level at Ban Choom gauge can not contact
- Water level at Ban Tanpiow gauge has decreased 2 cm compared to 08:00 am yesterday morning
- Water level at Ban Hatsuan gauge can not contact
- Water level at Vernkham gauge is 13.06 m at 08:00 am it is seen that water level has increased 1 cm

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

