

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 359.S.....
NamNgum-1, Date: 24 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 24/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.44 m.asl, Reservoir water Volume = 7,153,793,600 m³ , Water level has decreased 3 cm compared to 08:00 am yesterday morning
- Tail water level 168.10 m.asl has not change compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 549.7 m³/s = 47,498,400 m³/day

All amount included: - inflow from NNG-2 = 359.5 m³/s = 31,063,392 m³/day

- inflow from others sources = 190.2 m³/s = 16,435,008 m³/day

B. Reservoir Outflow = 662.8 m³/s = 57,267,648 m³/day

All amount included: - Turbines Discharge = 538.0 m³/s = 46,484,928 m³/day

- Spillway Discharge = 124.8 m³/s = 10,782,720 m³/day

- the Height of Spillways gate opened 30 cm Spillways discharge = 124.8 m³/s

- Rainfall at NamNgum 1 Raingauge is 0 mm

C. Pak ka ngoung gauge the water level at 6.34 m

- Flow at Pak ka ngoung gauge (Qpn) = 1,151.8 m³/s

All amount included: - Flow from NamNgum 1 (Qng1) = 662.8 m³/s

- Flow from Nam Song River (Qns) = 214.9 m³/s

- Flow fom Nam Lik1-2 (Qnl1-2) = 169.5 m³/s

the Height of Spillways gate opened 50 cm

- Flow from others small tributeries (Q) = 104.5 m³/s

3. Reservoir Water Balance (A-B) = -113.0 m³/s = - 9,769,248 m³/day

Therefore : Reservoir water level has decreased 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 Pakkangoung gauge is 6.34 m at 08:00 am it is seen that water level has decreased 20 cm (6.54 m)
- Water level at Vernkham gauge is 8.16 m at 08:00 am it is seen that water level has decreased 47 cm (8.63 m)

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