

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 3625.....
NamNgum-1, Date: 02 OCT 2018

Reservoir Water Situation Reports of NamNgum-1
Date : 02/10/2018 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 2 cm compared to 08:00 am yesterday morning
- Tail water level 168.0 m.asl has not change compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow	= 592.9 m ³ /s	= 51,231,744 m ³ /day
All amount included: - inflow from NNG-2	= 450 m ³ /s	= 38,880,000 m ³ /day
- inflow from others sources	= 142.9 m ³ /s	= 12,351,744 m ³ /day
B. Reservoir Outflow	= 668.3 m ³ /s	= 57,744,576 m ³ /day
All amount included: - Turbines Discharge	= 543.6 m ³ /s	= 46,967,040 m ³ /day
- Spillway Discharge	= 124.7 m ³ /s	= 10,777,536 m ³ /day
• the Height of Spillways gate opened 30 cm	Spillways discharge = 124.7 m ³ /s	
- Rainfall at NamNgum 1 Raingauge	is 5 mm	

C. Pak ka ngoung gauge the water level at 5.84 m

• Flow at Pak ka ngoung gauge (Qpn)	= 1,000 m ³ /s
All amount included: - Flow from NamNgum 1 (Qng1)	= 668.3 m ³ /s
- Flow from Nam Song River (Qns)	= 25.8 m ³ /s
- Flow fom Nam Lik1-2 (Qnl1-2)	= 137.2 m ³ /s
- Flow from others small tributeries (Q)	= 168.6 m ³ /s

3. Reservoir Water Balance (A-B) = -75.3 m³/s = 6,512,832 m³/day

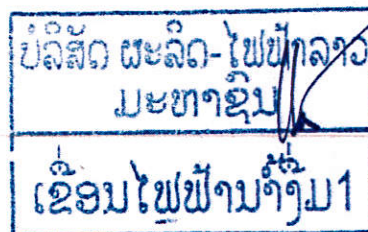
Therefore : Reservoir water level has decreased 2 cm compared to 08:00 am yesterday morning

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 5.84 m at 08:00 am it is seen that water level has decreased 6 cm (5.90 m)
- Water level at Vernkham gauge is 6.20 m at 08:00 am it is seen that water level has decreased 15 cm (6.35 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