

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : ...3509.....
NamNgum-1, Date:
25 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 25/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.43 m.asl, Reservoir water Volume = 7,150,537,200 m³ , Water level has decreased 1 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	= 645.8	m ³ /s	= 55,795,264	m ³ /day
All amount included: - inflow from NNG-2	= 414.7	m ³ /s	= 35,830,000	m ³ /day
- inflow from others sources	= 231.1	m ³ /s	= 19,967,040	m ³ /day
B. Reservoir Outflow	= 683.5	m ³ /s	= 59,051,664	m ³ /day
All amount included: - Turbines Discharge	= 558.8	m ³ /s	= 48,279,240	m ³ /day
- Spillway Discharge	= 124.7	m ³ /s	= 10,772,424	m ³ /day
• the Height of Spillways gate opened	30 cm	Spillways discharge = 124.7	m ³ /s	
- Rainfall at NamNgum 1 Raingauge	is 0 mm			

C. Pak ka ngoung gauge the water level at 6.20 m

• Flow at Pak ka ngoung gauge (Qpn)	= 1,108.4	m ³ /s
All amount included: - Flow from NamNgum 1 (Qng1)	= 683.5	m ³ /s
- Flow from Nam Song River (Qns)	= 81.5	m ³ /s
- Flow fom Nam Lik1-2 (Qnl1-2)	= 75.9	m ³ /s
- Flow from others small tributeries (Q)	= 267.5	m ³ /s

3. Reservoir Water Balance (A-B) = (-37.7) m³/s = (3,257,280) m³/day

Therefore : Reservoir water level has decreased 1 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 6.20 m at 08:00 am it is seen that water level has decreased 14 cm (6.34 m)
- Water level at Vernkham gauge is 7.90 m at 08:00 am it is seen that water level has decreased 26 cm (8.16 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