

Lao People's Democratic Republic
Peace Independence Democracy Unity prosperity

EDL-GENERATION PUBLIC COMPANY
NamNgum-1 HPP



No : 3440...
NamNgum-1, Date:
17 SEP 2018

Reservoir Water Situation Reports of NamNgum-1

Date : 17/09/2018 at 08:00 AM

1. Reservoir water level and Tail water level

- Reservoir water level 212.39 m.asl, Reservoir water Volume = 7,137,511,600 m³ , Water level has decreased 8 cm compared to 08:00 am yesterday morning
- Tail water level 168.70 m.asl has decreased 70 cm compared to 08:00 am yesterday morning

2. Reservoir Inflow and Outflow of NamNgum-1 HPP

A. Reservoir Inflow = 543.7 m³/s = 46,974,980 m³/day
All amount included: - inflow from NNG-2 = 329.9 m³/s = 28,500,000 m³/day

(At 11:00Am 15/09/2018, the Height of Spillways gate opened has been reduced from 90 cm to 0 m)
- inflow from others sources = 213.8 m³/s = 18,472,320 m³/day

B. Reservoir Outflow = 845.3 m³/s = 73,033,920 m³/day

All amount included: - Turbines Discharge = 598.2 m³/s = 51,679,800 m³/day
- Spillway Discharge = 247.1 m³/s = 21,346,380 m³/day

(At 16:00 Am 16/09/2018, the Height of Spillways gate opened has been reduced from 80 cm to 50 cm, Spillways discharge = 247.1 m³/s

- Rainfall at NamNgum 1 Raingauge is 0 mm

C. Pak ka ngoung gauge the water level at 8.12 m

• Flow at Pak ka ngoung gauge (Qpn) = 1,758.1 m³/s

All amount included: - Flow from NamNgum 1 (Qng1) = 845.3 m³/s

- Flow from Nam Song River (Qns) = 188.3 m³/s

- Flow fom Nam Lik1-2 (Qnl1-2) = 162.0 m³/s

(At 11:00 AM 8/09/2018, the Height of Spillways gate opened has been reduced from 1.0 m to 50 cm)

- Flow from others small tributeries (Q) = 562.5 m³/s

3. Reservoir Water Balance (A-B) = (-301.6) m³/s = (-26,058,240) m³/day

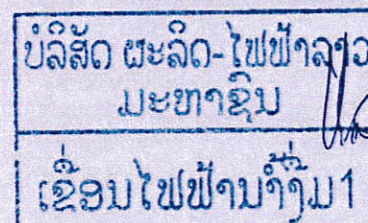
Therefore : Reservoir water level has decreased 8 cm /Day

4. Streamgauge data along Namlik river and NamNgum Downstream River compared to 08:00 AM yesterday morning as follow:

- Water level at Hinhuiep gauge no data
- Water level at Pakkangoung gauge is 8.12 m at 08:00 am it is seen that water level has decreased 82 cm (8.94 m)
- Water level at Bounghpao gauge has no data
- Water level at Ban Cheng gauge has no data
- Water level at Ban Choom gauge has no data
- Water level at Ban Tanpiow gauge has decreased 36 cm compared to 08:00 am yesterday morning
- Water level at Ban Hatsuan gauge has no data
- Water level at Vernkham gauge is 11.17 m at 08:00 am it is seen that water level has decreased 57 cm (11.74 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