Dam’s name: RASSISSE  
PKW’s year of construction: 2015  
Country: France
Progress of work: Built

Dam’s owner: Syndicat Intercommunal d’Aménagement Hydraulique du Dadou

Consultant: ISL (studies) ISL (numerical model)

Contractor: Razel / GTM / Cazal TP

PKW location: PKW1: On a new weir on the right bank PKW2: On a existing weir on arch dam

Downstream energy dissipation type: Ski jump

PKW purpose: Increase discharge capacity

PKW discharge capacity at MWL (m3/s): PKW1: 306 PKW2: 101

Dam design flow (m3/s): 431

Monitoring devices (Presence and type): No

Aeration (type and diameter of the pipe): PEHD pipe of 200mm of diameter

Overflowing Frequency: Daily

Number of overflow known: 1 to 5

Maximum head on PKW experienced (m) and date: 0.42, 20/10/2012

Type and number of other spillway: 0

Material of the PKW: Reinforced concrete

B (m): PKW1: 9 / PKW2: 6.5

P (m): PKW1: 3.75 / PKW2: 2.7

W (m): PKW1: 37.75 / PKW2: 14

L (m): PKW1: 1.80 / PKW2: 63

Number of inlet: PKW1: 9 / PKW2: 6

Wᵢ (m): PKW1: 2.15 / PKW2: 1.5

Number of outlet: PKW1: 8 / PKW2: 4

Wₒ (m): PKW1: 1.65 / PKW2: 1.15

Tₛ (m): 0.35

PKW cost (k€) PKW1: 3200 / PKW2: 400

Total project cost (k€) 8700000

Comment:

Sluices within the PKweir structures (PK1) were built to evacuate the flood during the construction of the new PKweir on the existing arch dam.

The main technical difficulties of the PKW on arch dam were the dam location height.