

Hydro Turbine Governor Hydraulic Cabinet

CAPABILITY SHEET - GUIDE-VANE AND NOZZLE-DEFLECTOR CONTROL - OIL PRESSURE UNITS AND ACCUMULATOR STATION

THE SYSTEM

WHAT	The hydro-mechanical cabinet and oil pressure unit that position a turbine's guide vanes, or an impulse machine's needle and deflector.
OUR ROLE	Cabinet, oil pressure unit, accumulator station, valve blocks, servo control, feedback, filtration, testing and commissioning support.
STATUS	Engineered to order; quoted across cabinet, guide-vane control and nozzle-and-deflector requirements. No delivered cabinet is claimed.

THE GOVERNING IDEA

YOU CANNOT SWITCH OFF THE DRIVER	On rejection the turbine keeps full hydraulic power with nothing absorbing it, and accelerates toward runaway - order of 1.8x rated.
BUT NOT TOO FAST	Closing quickly decelerates a long penstock water column and produces water hammer, a pressure rise capable of bursting the conduit.
THE CLOSING LAW	The negotiated answer - staged brisk through the stroke, cushioned at the end, with rates set and adjustable in the cabinet.

THE MACHINE

THE ACCUMULATOR IS THE SAFETY CASE	It must complete a full closing stroke with no supply and no pumps. Pre-charge, pressure switches and drop test are safety items.
FILTRATION IS NOT HOUSEKEEPING	Proportional valves have micron clearances; contamination means stiction, hunting, or failure to close when it matters.
FEEDBACK AT THE SERVOMOTOR	Dense position at the servomotor, not the valve - otherwise the loop controls its own command rather than the vane angle.

DISTINCT & HONEST

TWO TURBINES, TWO ANSWERS	Reaction machines throttle with guide vanes; impulse machines use a fast deflector and a slow needle, decoupling the two failure modes.
PROVED BEFORE IT SHIPS	Closing and opening times, accumulator drop test, valve response and null, leak and emergency proof - commissioning windows are short.
ENGAGEMENT	Send the turbine type, servomotor sizes and required closing law to sales@neometrixgroup.com for a compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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