

Abstraction Licence Application: Form D Information

Section	Description	Details
General Info		
1.1	Abstraction location	NT 18044 65140, Harlaw Reservoir, Reservoir
1.3	Impoundment location	NT 18044 65140, Harlaw Reservoir, Reservoir
2.2.1	Abstraction quantities	2304 m ³ /hr; 55296 m ³ /dy; 20238336 m ³ /yr
2.2.2	Additional information	See main report
2.2.3	Efficiency steps	Iteratively optimised design to provide most economic maximum energy yield
Hydro power specific info		
G.1	Head and flow	Head = 18 m, Design flow = 640 l/s
G.2	Installed efficiency	59.1% (water to wire)
G.3	Installed capacity	0.0668 MW
Abstraction details		
3.1	Abstraction point ref	Intake
3.2	Source type	Watercourse
3.3	Name of watercourse	Harlaw Reservoir
3.4	NGR of abstraction point	0
3.5	Intake structure	Existing structure with retrofitted with parallel-bar screen. See drawing 110014D002
3.6	Construction method statement	See Appendix III
3.7	Purpose	Hydro power
3.8	Environmental service	No
3.9	Abated charges	Yes – less than 2 MW capacity
3.10	Maximum rates of abstraction	640 l/s; 55296 m ³ /dy; 20238336 m ³ /yr
3.11	Monitoring	Abstracted volume will be proportional to electricity produced. Total abstracted volume will be calculated from reading the electricity meter.
3.12	Abstraction timing	Annually
3.13	Abstraction timing	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
3.14	Discharge ref	Yes – 0
3.15	Discharge %	100%
3.16	Operating regime	Mitigation flow equal to Q95 at minimum flow increasing to Q80 at design flow See Appendix I for flow duration curves
3.20	Commencement date	?
3.21	Construction date	?

Additional info		
5.1	Subsistence chargeable	0 m ³ /day