

**Field      Engineering and Technology****Review and expiry of *Electricity Supply - Thermal Operations and Control* unit standards**

Subfield	Domain	ID
Electricity Supply	Electricity Supply - Thermal Operations and Control	17398-17412, 17414-17449, 17905, 17910, 17911, 20187, 20188, 22875-22879

Connexis Infrastructure ITO has completed the review of the unit standards listed above.

**Date new versions published**

**January 2019**

**Summary**

The unit standards were identified as overdue for review. Usage checks showed that the standards had received little or no use in the last 3 years and are not included in any current Connexis programmes. A list of standards was circulated among relevant industry stakeholders in October 2018, and any standards identified as no longer needed were reviewed with the intention to expire them from the Directory of Assessment Standards.

**Main changes**

- All standards were designated expiring and reissued as new versions with an expiry date included.
- References in guidance information and within individual standards were updated.
- Standard setting body information and contact details were updated.

**Category D unit standards will expire at the end of December 2020**

**Detailed list of unit standards – classification, title, level, and credits**

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

Engineering and Technology > Electricity Supply > Electricity Supply - Thermal Operations and Control

ID	Title	Level	Credit	Review Category
17398	Operate gas plant in a thermal electricity generation power station	4	6	D
17399	Operate compressed air systems in a thermal electricity generation power station	4	4	D
17400	Operate cooling water systems in a thermal electricity generation power station	4	3	D
17401	Operate air conditioning in a thermal power station	4	3	D
17402	Operate auxiliary boiler in a thermal electricity generation power station	4	6	D
17403	Operate nitrogen and carbon dioxide systems in a thermal electricity generation power station	3	2	D

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
17404	Operate fuel oil systems in a thermal electricity generation power station	4	3	D
17405	Operate fixed fire protection and detection systems in a thermal electricity generation station	4	6	D
17406	Operate auxiliary steam systems in a thermal electricity generation power station	4	2	D
17407	Operate station drains in a thermal electricity generation power station	4	3	D
17408	Operate water treatment systems in a thermal power station	4	8	D
17409	Operate and monitor turbine steam systems in a thermal electricity generation power station	4	12	D
17410	Operate condensers and condensate systems in a thermal electricity generation power station	4	4	D
17411	Operate feed heating systems in a thermal electricity generation power station	4	5	D
17412	Operate turbine oil systems in a thermal electricity generation power station	4	5	D
17414	Operate and monitor steam and water cycle chemistry in a thermal electricity generation station	4	4	D
17415	Operate turbine control fluid systems in a thermal electricity generation power station	4	5	D
17416	Operate boiler feed pump turbine in a thermal electricity generation power station	4	5	D
17417	Operate boiler feed pump in a thermal electricity generation power station	4	4	D
17418	Operate boiler fuel oil systems in a thermal electricity generation power station	4	3	D
17419	Operate boiler air and flue gas systems in a thermal electricity generation power station	4	4	D
17420	Operate boiler steam and water circuit in a thermal electricity generation power station	4	5	D
17421	Operate boiler fuel gas and ignition gas systems in a thermal electricity generation power station	4	4	D
17422	Operate soot blowing system in a thermal electricity generation power station	3	2	D
17423	Operate coal firing in a thermal electricity generation power station	4	6	D
17424	Operate boiler electrostatic precipitators in a thermal electricity generation power station	4	2	D
17425	Operate boiler circulating pumps in a thermal electricity generation power station	4	2	D
17426	Operate auxiliary steam range from a thermal electricity generation control room	4	2	D
17427	Carry out a controlled start up of thermal electricity generation plant	6	15	D
17428	Operate steam raising equipment from a thermal electricity generation control room	5	7	D
17429	Operate vents and drains from a thermal electricity generation control room	4	4	D
17430	Operate barring gear and jacking oil systems from a thermal electricity generation control room	4	3	D
17431	Operate condensers and vacuum raising equipment from a thermal electricity generation control room	5	6	D

ID	Title	Level	Credit	Review Category
17432	Operate control oil systems and steam admission valves from a thermal generation control room	5	8	D
17433	Carry out controlled shutdown of thermal electricity generation plant	6	10	D
17434	Operate circulated cooling water systems from a thermal electricity generation control room	4	8	D
17435	Operate boiler and steam generator draught systems from a thermal generation control room	5	6	D
17436	Operate electric feed pumps from a thermal electricity generation control room	5	4	D
17437	Operate plant control electrical systems from a thermal electricity generation control room	5	4	D
17438	Excite and synchronise thermal electricity generation plant	6	5	D
17439	Operate feed heating systems from a thermal electricity generation control room	5	6	D
17440	Operate gas firing controls from a thermal electricity generation control room	5	4	D
17441	Operate generator cooling and seal oil systems from a thermal electricity generation control room	5	5	D
17442	Operate gland steam systems from a thermal electricity generation control room	5	3	D
17443	Operate lube oil systems from a thermal electricity generation control room	5	5	D
17444	Operate panel controls from a thermal electricity generation control room	6	6	D
17445	Monitor and carry out routine operations from a thermal electricity generation control room	5	4	D
17446	Control and monitor chemistry conditions from a thermal electricity generation control room	5	5	D
17447	Operate during plant trips from a thermal electricity generation control room	5	5	D
17448	Monitor turbine supervisory from a thermal electricity generation control room	5	6	D
17449	Carry out on load valve tests and simulated trip tests on thermal electricity generation plant	5	3	D
17905	Operate coal handling equipment in a thermal electricity generation power station	3	6	D
17910	Operate an ash plant control room and pump house in a thermal electricity generation power station	4	5	D
17911	Conduct ash handling in a thermal electricity generation power station	3	5	D
20187	Operate ferrous sulphate systems in a thermal electricity generation power station	4	3	D
20188	Carry out borax nitrate dosing and rinsing in a thermal electricity generation power station	4	3	D
22875	Operate a gas turbine and associated systems for electricity generation in a thermal power station	4	16	D
22876	Operate and monitor a generator and associated systems in a thermal power station	4	8	D
22877	Demonstrate knowledge of steam generation water treatment in a thermal power station	4	6	D
22878	Operate and monitor a hydrogen cooled generator and systems in a thermal power station	4	6	D

ID	Title	Level	Credit	Review Category
22879	Operate heat recovery steam generator (HRSG) in a thermal power station	4	12	D