

1 Q. Please provide the ratio of management (individuals who have people reporting to them)  
2 to engineers (with no people reporting to them) for generation within Hydro.

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5 A. Operations:

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7 • Hydraulic Generation (non-Exploits) :

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9 ○ Thirteen managers and supervisors in total covering engineering, maintenance,  
10 operations, safety and environment and senior leadership, with only one  
11 managing engineering technical support; and

12

13 ○ There are three engineers and three technologists providing technical support.

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15 • Exploits Generation:

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17 ○ Seven managers and supervisors in total covering engineering, maintenance,  
18 operations, safety and environment and senior leadership, with only one  
19 managing engineering technical support; and

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21 ○ There are two engineers and one technologist providing technical support.

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23 • Holyrood Thermal Generating Station:

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25 ○ Eighteen managers and supervisors in total covering engineering, maintenance,  
26 operations, water/waste water/landfill treatment, emergency response, safety  
27 and environment and senior leadership, with only one managing engineering  
28 technical support; and

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- 1                   ○ There are four engineers and two technologists providing technical support.
- 2
- 3                   ● Gas Turbines (and diesels technical support):
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- 5                   ○ Two managers and supervisors in total covering engineering, operations, and
- 6                   senior leadership, with only one managing engineering technical support; and
- 7
- 8                   ○ There are three engineers and one technologist providing technical support.
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10           Engineering Services:

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- 12                   ● Engineering Services provides the following support to the organization: project
- 13                   management, construction management, capital budget planning, asset
- 14                   management and reliability, technical operations support, drafting, properties,
- 15                   planning, safety, procurement, cost management and administration support.
- 16
- 17                   ● The equivalent of five managers provides support for the major generation assets.
- 18
- 19                   ● The equivalent of thirty eight engineers and nine technologists provide expertise
- 20                   and support of hydro generation, thermal generation, gas turbine and large diesel
- 21                   generation in the areas of mechanical, civil, electrical, communications, and
- 22                   protection and control engineering. Included in these numbers are seven
- 23                   embedded contract engineers and three embedded contract technologists that
- 24                   support the generation capital program. The number of embedded contractors will
- 25                   adjust according to the level of capital investment in the generation assets.