

**Scotgen (Dumfries) Ltd**

**Dargavel Energy from Waste Facility**

**Commissioning Progress Monthly Report for June 2010**

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## 1. Summary

Commissioning activities were recommenced during March and continued throughout June. The amendment of the boiler front end on an interim basis was completed physically in February. The interim amendment has been adopted and confirmed as part of a Regulation 12 application made by Scotgen to SEPA.

A gasification trial was already underway on Stream 2 at the start of the month, where a sequence of 24 cycles were completed successfully. This was repeated with Stream 1 commencing on the 10<sup>th</sup> of June and continuing through to the 19<sup>th</sup> of June. 18 cycles were completed on this trial. Stream 2 performed a series of trials over 19 cycles between the 21<sup>st</sup> and the 29<sup>th</sup> of June. Stream 1 began a further trial on the 29<sup>th</sup> of June; this trial was in progress at the end of the month and continued into July. During June a total of 52 cycles were completed successfully. There was however no period where both stream 1 & stream 2 were operating together. Each of these series of gasifications included a sequence of cycles across each stream of 4 primary chambers (PGC's 1-4 & PGC's 5-8) to include a waste fuel mix that included material with a hazardous waste content. Time off-line for each Stream was spent cleaning and inspecting the amendment of the boiler front end with recommencement once all items were satisfactorily returned ready for further duty.

There were breaches of the permit during June. These have been reported separately to SEPA.

The turbine package remains under construction.

## 2. Introduction

Scotgen have been issued a Permit by the Scottish Environmental Protection Agency (SEPA) to operate a waste gasification facility at Dargavel, Dumfries. The Permit number is PPC/A/1022412. Clause 3.9.5 requires the operator to submit a monthly report during the Commissioning period. This is the twelfth report and covers the month of June 2010.

## 3. Commissioning Activities undertaken during June

A series of gasification trials were carried out on both streams. Gasifiers containing both wholly non hazardous fuel and mixed hazardous and non hazardous fuel was used through out all of these trials. Both streams were operational together for a period. In excess of xx cycles were completed during the period of June. Further modifications continue to be made to the combustion air management and control resulting in improvements in the performance of the cycles experienced and improvements in the syngas quality, reducing the burner operation in the SCC (Secondary combustion chamber). Data gathering for commissioning continues. Contractor performance trials are still to be undertaken on the main gasification and combustion side equipment. This item is restricting the timetabling of other performance trials on the plant as a whole. Scotgen are working towards providing to SEPA a scheduled timetable for the completion of the commissioning activities including the testing required under the permit.

#### 4. Tests undertaken during June

No specific tests as required by the Permit, section 3.9, were completed during June.

#### 5. Results of tests undertaken during June

No specific tests as required by the Permit, section 3.9, were completed during June.

#### 6. Justification for delays from the notified dates

No further delays were experienced other than ongoing breaks between batches for control software development. Inspection and cleaning of the boiler sections is ongoing between gasification trials with replacement of cooling tubes being carried out as and when necessary.

#### 7. Condition 3.9.3(g) criteria. (any completed commissioning activities or tests).

No tests have been completed against the criteria of Condition 3.9.3 (g).