

**REPORT TO: PORTCHESTER CREMATORIUM JOINT COMMITTEE –
17 JUNE 2013**

REPORT BY: THE ENGINEER AND SURVEYOR

MAXIMISING THE BENEFIT OF MERCURY ABATEMENT PLANT

1.0 Purpose of Report

1.1 To enable consideration to be given to the utilisation of the heat exchangers installed as part of the mercury abatement project.

2.0 Introduction

2.1 At the last meeting of the Joint Committee the possibility of incorporating the heat exchangers, installed as part of the mercury abatement project, was raised. The heat exchangers were installed to enable the possibility of heat, which would otherwise be dissipated direct into the atmosphere, being utilised as part of the heating systems at the Crematorium. Pope Consulting Ltd was engaged to advise on a suitable project and has produced a technical report.

2.2 At present the crematorium principal building has three main heating systems: a hot air system to the south chapel, an underfloor hot water system to the north chapel and radiators to the office complex. These systems are described by the consultants as being in a reasonable or satisfactory condition.

3.0 Consultant's Report

3.1 The report identifies that a maximum of 228kW could be available in the rare circumstance of all of the plant operating simultaneously. Given a more typical situation of operation it is necessary to link the three heat exchangers to enable them to provide heat to the heating systems. The existing heating systems would still operate but priority would be given, via a control system, to utilising the "waste heat" from the mercury abatement process.

3.2 The consultant's estimate that the cost of installing appropriate equipment would be approximately £28,500 (inclusive of fees) with an annual saving of approximately £2,600 at current energy costs.

3.3 The consultant's also estimate a contract period of 6 weeks for the installation with a lead-in time of an additional 12 weeks. The work would be contained in the plant area and would be largely undertaken outside of normal working hours.

4.0 Budget Provision

4.1 No specific budget provision has been made for providing a system to utilise the mercury abatement heat exchangers in the current financial year. Provision could be made in the budget process for 2014/15 or, given the Crematorium's sound financial footing, the Joint Committee could approve an additional capital scheme for 2013/14. This would have the advantage of enabling benefit to be obtained in the current financial year.

5.0 Recommendations

5.1 That the proposal outlined by Pope Consulting Ltd to incorporate the mercury abatement heat exchangers into the existing Crematorium building heating systems be approved.

5.2 That approval be given for an additional £28,500 capital scheme in the current financial year.

Terry Garvey
Engineer and Surveyor

*Background List of Documents –
Section 100D of the Local Government Act 1972 - None*

TG
May 2013