Item C3

SW/10/444 - Development of a Sustainable Energy Plant to serve Kemsley Paper Mill. Land to the North East of Kemsley Paper Mill, Kemsley, Sittingbourne, Kent.

A report by Head of Planning Applications Group to Planning Applications Committee on 12 April 2011.

SW/10/444 - Development of a Sustainable Energy Plant to serve Kemsley Paper Mill, comprising Waste Fuel Reception, Moving Grate technology, Power Generation and Export Facility, Air Cooled Condensers, Transformer, Bottom Ash Handling Facility, Office Accommodation, Vehicle Parking, Landscaping Drainage and Access. Land to the North East of Kemsley Paper Milll, Kemsley, Sittingbourne, Kent. St Regis Paper Company Ltd and E. ON Energy From Waste Ltd. (MR. 922 665)

Recommendation: Planning permission be granted subject to conditions.

Local Member: Mr. M. Whiting and Mr. A. Willicombe Unrestricted

The Site and Background

1. The proposed site is located to the north east of Kemsley, some 2 kilometres south east of Iwade and the A249. It adjoins the north eastern side of the existing Paper Mill and lies close to habitats which form part of the Swale SSSI and the Medway Estuary and Marshes SSSI. These SSSIs are part of the Swale SPA and Ramsar Site and the Medway Estuary and Marshes SPA and Ramsar Site. The majority of the site is currently disused however the southern corner of the site contains a small area of storage for materials and vehicles with associated access tracks. Whilst there are no public rights of way which cross the site the Saxon Shore Way, a nationally important long distant footpath, runs along its northern boundary. See site location plan and aerial photograph below.

2. Members visited the site in July last year when they were able to hear the applicants explain the overall context of the proposed scheme and view the site in the context of the wider surroundings. (A note of the visit is attached under Appendix 1).

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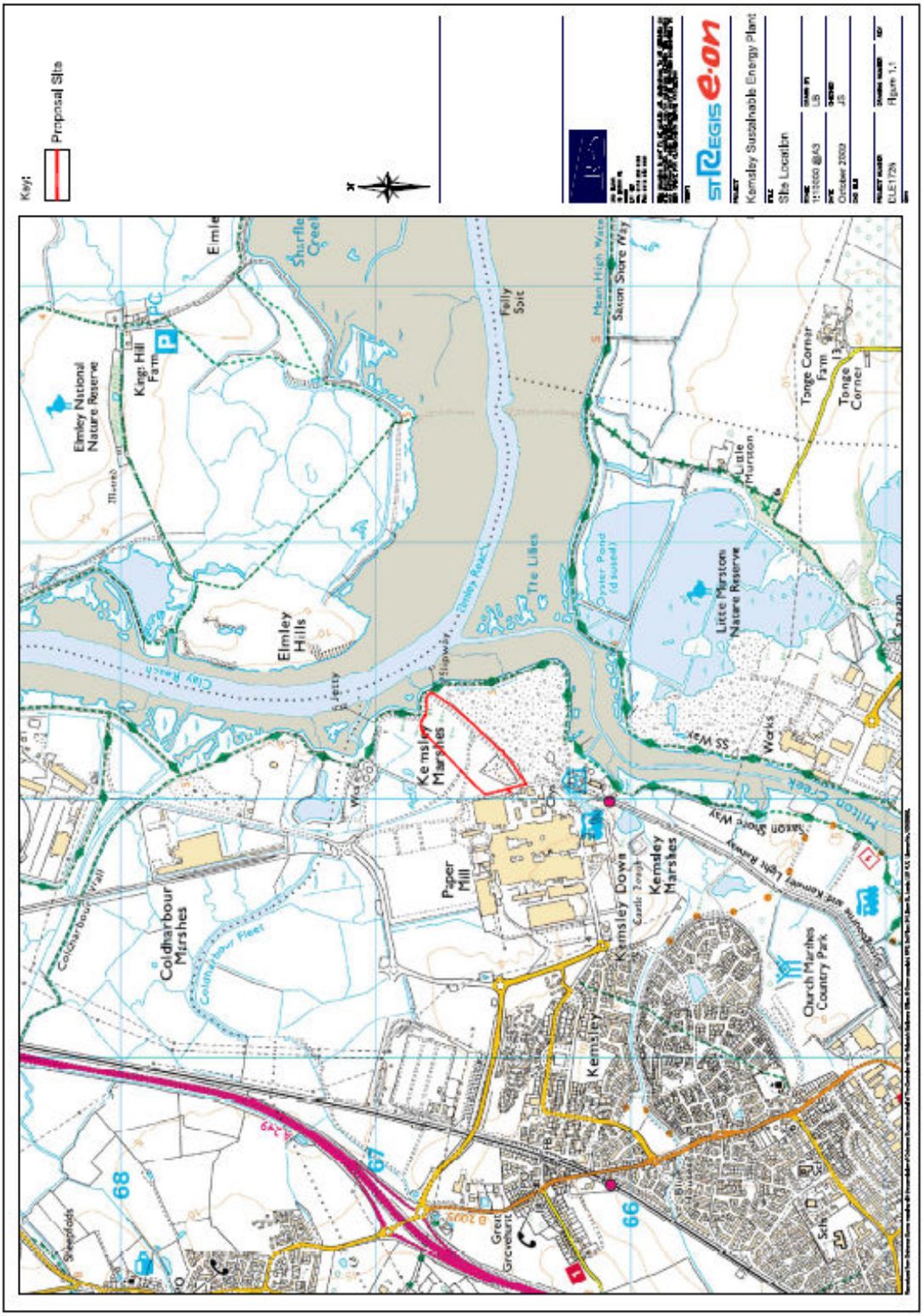
Site Location



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Aerial View of Site

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Proposal

3. It is proposed to construct a Sustainable Energy Plant (SEP) within 7.0 hectares of land at the existing Kemsley Paper Mill Site, Sittingbourne, Kent. The proposed development footprint comprising of the plant and associated facilities would occupy some 4.6 ha in total (see site layout and elevational details), and consist of a reception hall and bunker, boiler house, 2 stacks (90m), flue gas treatment, air cooled condensers, Bottom Ash (BA) building, disabled car parking landscaping, and access. The main bulk of the building would extend to a height of some 50 metres.

Proposed Site Layout

4. The application site has previously been found to contain protected species. Although there would be a net loss of the existing habitat on site it is proposed that as part of the development new habitat would be created around the outside of the development footprint consisting of attenuation lagoons into which clean surface water would drain in order to encourage the colonisation by species consistent with the UK Biodiversity Action Plan. Also, prior to site construction, any existing species found present would be translocated onto newly formed habitat on an adjoining area which has been subject to previous landfilling with waste from the Paper Mill. In addition it is further proposed to provide around 1 hectare of reedbed habitat in a more remote area considered suitable for use by the breeding Marsh Harrier.

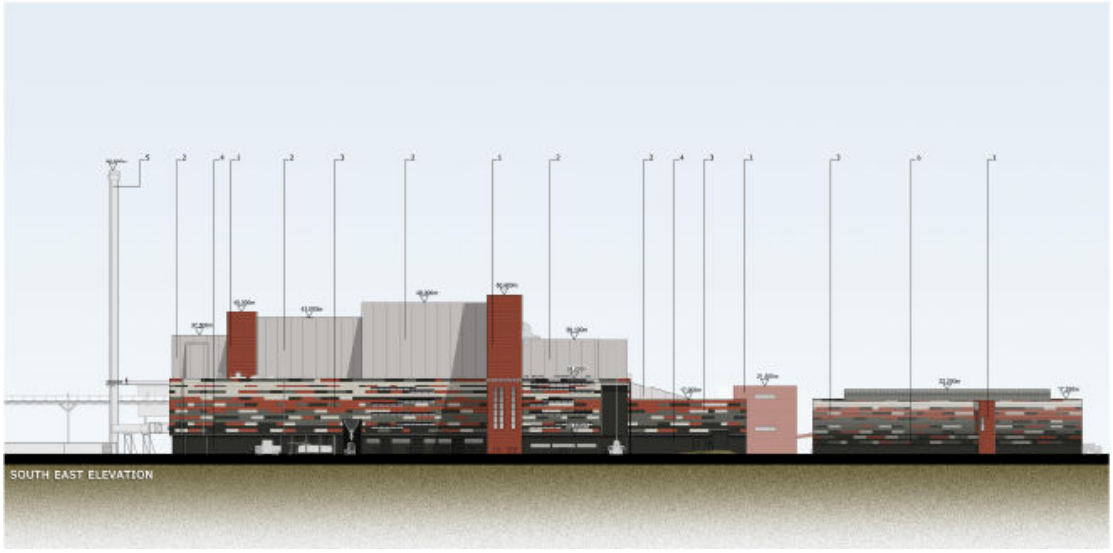
5. The applicants propose to use approximately 500,000 to 550,000 tonnes of pre treated waste per annum as a fuel source. Waste would comprise Solid Recovered Fuel Waste, Commercial and Industrial waste and pre treated Municipal Solid Waste, which may include up to 25,000 tpa of waste plastics arising from the adjoining paper making process. It is intended that the waste would be sourced from within Kent, with the

balance from London, the South East and elsewhere in the UK subject to commercial viability. The SEP would use the waste as a fuel to recover energy producing some 48.5 MW per hour of electricity and provide in excess of 50 MW per hour of steam to the mill.

6. The energy requirements at Kemsley paper mill are currently met on site by a Combined Heat and Power (CHP) plant which is fuelled by natural gas, a fossil fuel based energy source, and by a Waste to Energy plant which burns rejects from the paper making process. The applicants state that the mill's energy cost is some £50m per annum representing 25% of turnover. With the pricing of natural gas having become extremely volatile in recent years and with the European market less de-regulated than the UK, the applicants claim this has put Kemsley Mill and other UK operators at a disadvantage to their European competitors, as a result of which 22 paper mills have closed in the UK over the last 5 years including 3 in Kent. With the UK becoming more reliant upon imported natural gas, the applicants are concerned about the future supply of natural gas on which their operations currently rely.

7. Although natural gas will remain as a significant source of energy for the mill, the applicants argue there is a clear need for Kemsley Mill to diversify its fuel source and, in so doing, to reduce its reliance on fossil fuel based energy sources. They claim the proposed SEP would therefore ensure a greater degree of energy supply security and improve the competitive position of the mill.

South East Elevation



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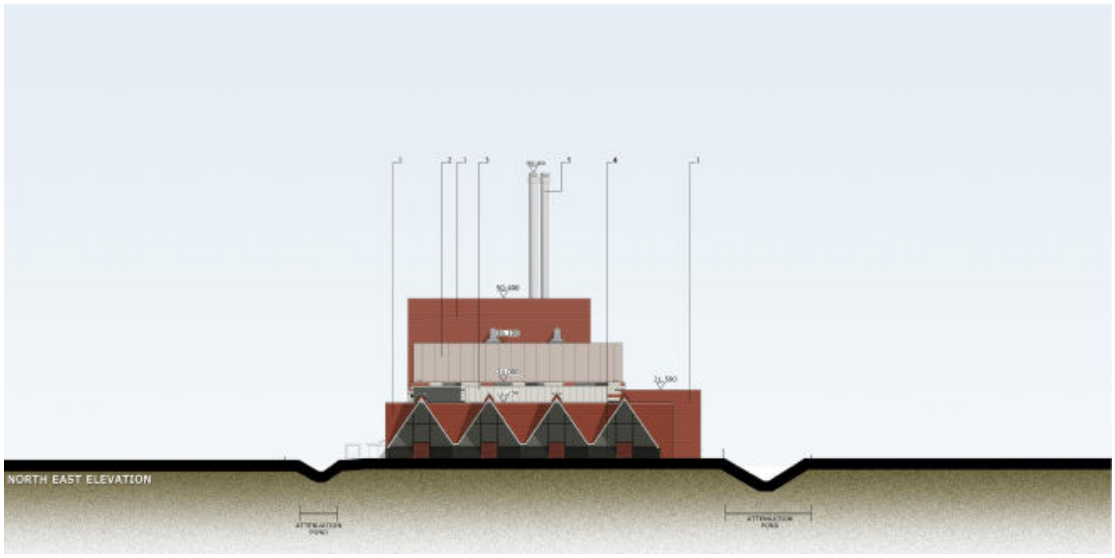
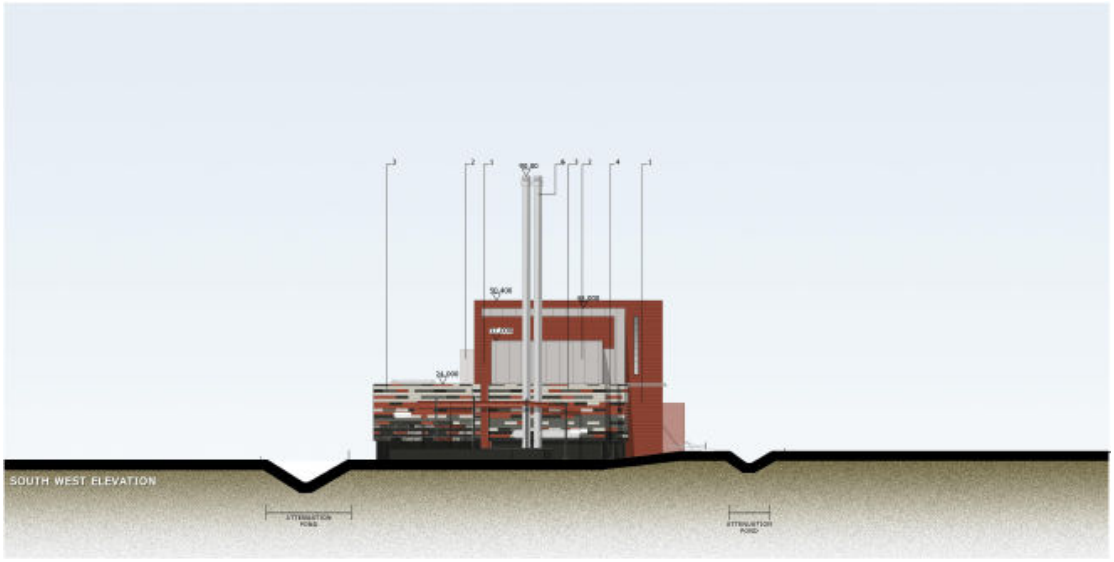
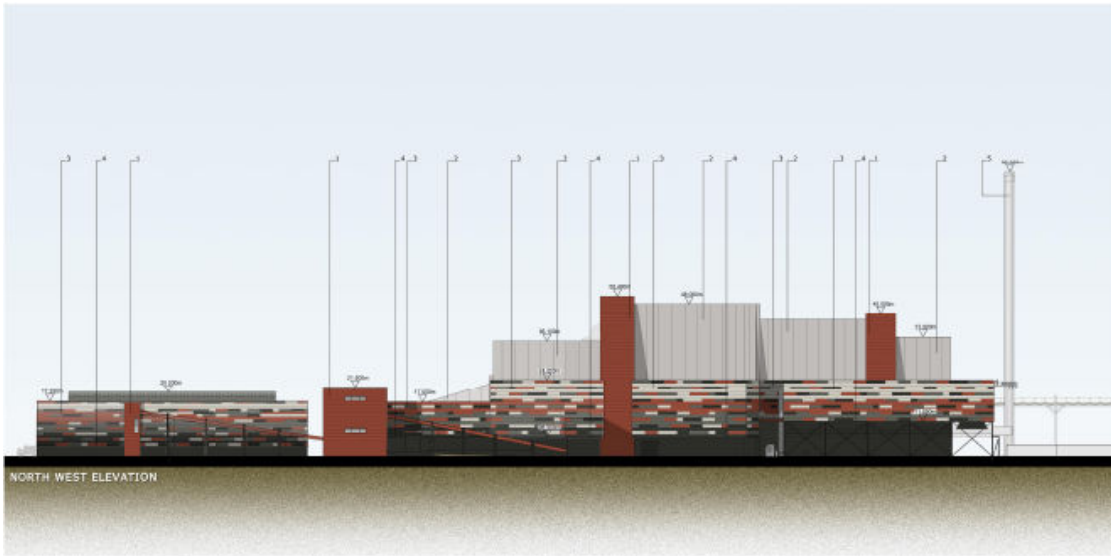
North East Elevation



South West Elevation



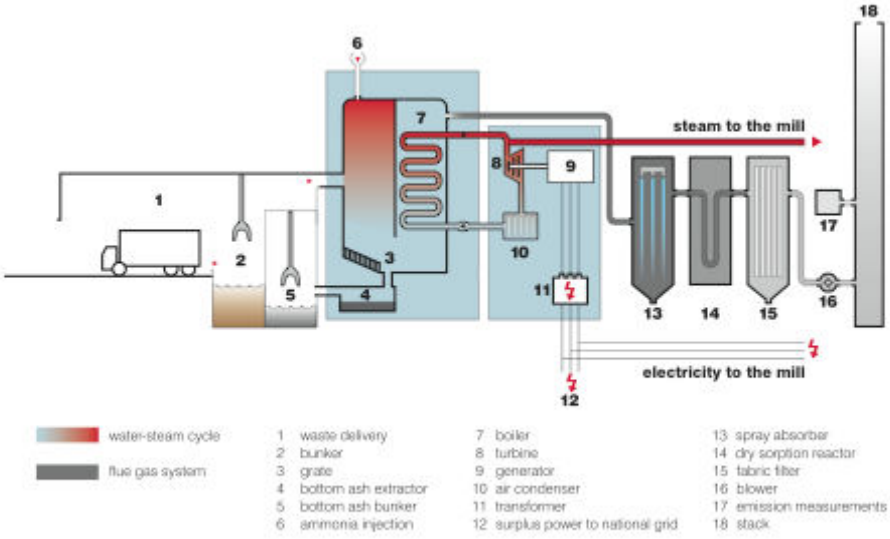
North West Elevation



Process

8. Waste would be delivered to the plant by Heavy Goods Vehicles within enclosed containers. Loads would be weighed upon entry to the site at a weighbridge located at the site entrance and then vehicles directed to a reception hall using a dedicated circulatory access road within the site. The waste would be tipped into a bunker which is designed to accept up to 3000 tonnes per day, and processed through a thermal treatment process at a rate of up to 2 x 37 tonnes per hour. Within the bunkers the waste fuel would be mixed by two hydraulic grabs to provide an homogenous mix to the plant before being fed into charging hoppers which in turn feed the grate stoker furnace located within the boiler house.

Flow diagram of the SEP process



9. The fuel bunker would be ventilated under negative pressure by the primary air fan. During normal operation the exhaust air would be fed into the incineration system. During downtime the extracted air is ventilated through a separate activated charcoal filter and discharged through a vent pipe on the roof of the bunker.

10. The combustion grate is where the combustion of the waste would take place. The charging hopper passes into a shaft, the fuel in this shaft would work as a gas tight seal between the combustion chamber and the bunker. Hydraulically driven ram feeders are used to evenly distribute the incinerator charge along its extent and transport it to the grate area. The grate is designed as a multi line sliding grate/feed stoker and longitudinally consists of four separate grate zones.

11. The ash hoppers beneath the grate discharge into a water quench slag extractor. The burnt up slag at the end of the grate falls into the water quench via the bottom ash hopper. A slat conveyor carries ash and slag out of the water quench to a slag bunker via a belt conveyor.

12. Back up burners fuelled by light fuel oil would be located above the grate and would allow for start up from a cold state and as a supplementary firing means to ensure a minimum operating temperature of 850 ºC as necessary.

13. Primary combustion air will be fed into the furnace through the underside of the grates by a primary air fan. Secondary air will also be injected at high velocity through nozzles positioned in the walls of the combustion chamber above the level of the waste. This will create turbulence, which assists in mixing the secondary air and combustion gases to achieve complete combustion of the gases. The volume of both primary and secondary air would be regulated by an automatic combustion control system.

14. The steam generation system is located above the grate. The steam generating environment operates within a pressure of 48bar and 410ºC. This minimises chloride corrosion to the heating surfaces. The pipe walls of the first, second and third exhaust flue as well as those of the horizontal flue constitute the evaporator heating surfaces, where at first saturated steam would be generated. The horizontal flue would contain a convection, heating surfaces suspended in the flue gas flow and super heater and feed water heater (Economiser). The flue gas would be ventilated from the grate via the four passes in to the flue gas treatment system behind the horizontal flue.

Energy Recovery

15. The steam produced would be used to drive a steam turbine which in turn would drive a generator producing electricity transformed to a voltage distribution of 400V and to 700V to supply the plant itself. Surplus electricity would be exported from the plant and fed to the grid via a transformer at 132kV. Low pressure steam would also be extracted for use as process steam within the paper mill. The steam would be fed to the mill over a bridge which crosses the internal site road to the west of the proposal site.

Flue Gas Treatment

16. Combustion gases would be cleaned before they are released to the atmosphere. The flue gas treatment system is a dry conditioned flue gas treatment system. The final configuration and design of the abatement plant would be agreed with the Environment Agency as part of the Environmental Permitting authorisation process. The flue gas treatment (FGT) system would be designed to be compliant with the EC Waste Incineration Directive and which would be enforced by the Environment Agency through conditions attached to the facilities Environmental Permit. The proposed flue gas treatment process is able to precipitate acid components to a minimum. The flue gas from the grate is cleansed of any acids or other compounds by a process which turns nitrogen oxides (NOX) produced during combustion by non catalytic conversion to nitrogen and steam. The reducing agent used is ammonium hydroxide, which reacts with nitrogen dioxide of the flue gases within a temperature range of 850 - 950oC. Approximately 20% by weight of the total ash produced by the sustainable energy plant would be in the form of fly ash and reaction product FGT. Thus assuming a 90% load factor it is expected that approximately 28,000 tonnes of fly ash and reaction FGT residue will be produced per annum.

17. Once collected, the ash will be loaded into sealed containerised vehicles and transported from the site for disposal within a permitted facility.

18. Bottom ash would represent around 20% to 25% of the waste throughput equating to up to 138,000 tonnes per annum. Ash from the slag bunker would be transported to a separate slag treatment system on site where it would be crushed into a graded material. Ferrous and non ferrous metals would be recovered together with any un-burnt material being returned to the fuel bunker. The ash would be graded and stored in rows within an enclosed building for a period of three months during which time it would mature improving its ability to be used for construction purposes off site. Any ash not sold would be treated as a waste product and also be removed off site to an authorised facility.

19. Clean exhaust gas would be directed to the stack by an induced draft fan and an exhaust silencer would control sound emissions at the stack outlet. The applicant indicates that each processing line would be served by a stack with a height of 90 metres located at the south western end of the building. The applicant states that the height has been determined through dispersion modelling of emissions and evaluation of the resulting dispersion plumes so that ground level concentrations of key pollutants are maintained within acceptable levels under all operating conditions.

Access to the Site

20. The applicants proposal assumes all waste would be delivered to the site by road, however they indicate that they are pursuing other options for delivery by water and/or rail should this be found to be practicable and viable. There are two points of vehicular access available to the existing Kemsley Paper Mill. The southern access is via Ridham Avenue to the south of the mill site. The other site access is located at the north-east corner of the site and is accessed via Barge Way. It is proposed that staff and visitors would use the existing southern access and that HGVs accessing the site delivering waste would use the existing northern access. It has been assumed that all HGVs would travel from junction 5 of the M2 via the A249 and Swale Way. Overall, the SEP would generate some 258 daily HGV movements which would equate to 22 movements per hour.

Proposed Working Hours

Construction Stage

21. Construction work would include civil engineering works associated with the plant construction and the process work involved in the mechanical and electrical equipment installation, fit out and commissioning of the plant. The applicants propose that construction activities would take place between:

    0700 and 1900 Monday to Friday, and
    0700 and 1600 Saturday and Sunday

    with the exception of non-intrusive activities which would take place outside of the above.

Operational Stage

22. The applicants are seeking permission to enable the SEP to operate on a continuous 24 hour basis, 7 days a week. However waste deliveries would be restricted to between the following times:

    0700 and 1800 hours Mondays to Fridays, and
    0700 and 1300 hours on Saturdays

23. The application is accompanied by an environmental statement which includes an assessment of the possible effects of the proposed development in relation to the existing conditions on site and its surroundings. Having regard to the specified information as required under the Town and Country Planning (Assessment of Environmental Effects) Regulations 1988 (as amended), the following key matters have been taken into account;

(i) Need
(ii) Traffic
(iii) Air Quality
(iv) Landscape and visual Impact
(v) Nature Conservation
(vi) Hydrology
(vii) Noise
(viii) Socio Economic Impacts

National, Regional and Local Planning Policy Context

24. The original members briefing note initially set out the relevant policy considerations in relation to the proposed development. The South East Plan (SEP) referred to in that note in the meantime was abolished and later reinstated pending the enactment of the Localism Bill Members will be aware that that they have to have regard to the policies in the SEP and the Government's intention to abolish the Regional Spatial Strategies (RSS) as material considerations. However, the weight to be accorded is a matter for the decision makers. Members should also note that Cala Homes has been granted leave to appeal the recent High Court judgement and are seeking clarification on how much weight should be given to the RSS in the light of the intention to revoke.

25. The key National and Development Plan Policies most relevant to the proposal are summarised below:

Planning Policy Statement 1 (PPS1): Delivering Sustainable Development - Encouraging decisions taken on planning applications to contribute to the delivery of sustainable development. The Supplement to PPS1 – Planning and Climate Change sets out how planning should contribute to reducing emissions and stabilising climate change. Tackling climate change is a key government priority in the planning system.

Waste Strategy 2007 – aiming to reduce waste by making products with fewer natural resources, breaking the link between economic growth and waste growth; products should be re-used or their materials recycled. Energy should be recovered from other waste where possible.

Planning Policy Statement 7 (PPS7): Biodiversity and Geological Conservation – This sets out planning policies on protection of biodiversity and the geological conservation through the planning system.

Planning Policy Statement 10 (PPS10): Planning for Sustainable Waste Management – Underlines the importance of planning for and consenting the necessary number and

range of facilities in order to ensure that adequate provision is made for the future management of our waste.

The key aim of moving waste management up the 'waste hierarchy' forms the underlying objective of national policy. The proximity of waste disposed and 'self sufficiency' are also expected to represent the fundamental key to securing such objectives to ensure that communities take responsibility for their own waste.

Through more sustainable waste management, moving the management of waste up the 'waste hierarchy' through the descending order of reduction, re-use, recycling and composting, using waste as a resource of energy and only disposing of waste to landfill as a last resort, government aims to break the link between economic growth and the growth of waste.

Planning Policy Statement 22 (PPS22): Renewable Energy – This sets out the valuable role that renewable energy can play in meeting Governments' commitment to addressing the impacts of climate change and maintaining reliable and competitive energy supplies. Renewable energy will contribute to the Governments' sustainable development strategy by meeting energy needs, reducing greenhouse gas emissions and the impact of climate change, the prudent use of natural resources and a reduction in the reliance on fossil fuels. Development proposals should demonstrate any environmental, economic and social benefits as well as how environmental and social impacts have been minimised through careful consideration of location, scale and design.

In decision making local planning authorities should also have regard to the following key principles. Renewable energy developments should be capable of being accommodated throughout England in locations where the technology is viable and environmental, economic and social impacts can be satisfactorily addressed : development plan policies should promote and encourage such development ; the wider environmental and economic benefits of renewable energy projects irrespective of scale should be given significant weight in decision making ; assumptions about the technical and commercial feasibility of the project is not a consideration and developments should demonstrate any environmental, economic and social benefits as well as how any environmental benefits have been minimised through location, scale and design considerations.

Planning Policy Statement 23 (PPS23): Planning and Pollution Control – LPAs must be satisfied that planning permission can be grated on land use grounds taking full account of environmental impacts. This will require close co operation with the E.A. and or the pollution control authority and other relevant bodies. It states that controls under the planning and pollution control regimes should compliment and not duplicate each other. In considering proposals LPAs should take account of the risks of pollution and land contamination and how these can be managed or reduced. The policy advice is clear in that the Planning System should focus on whether the development itself is an acceptable use of the land and the impacts of those uses, rather than the control of those processes or emissions themselves. Planning Authorities should work on the assumption that the relevant control regime will be properly applied and enforced . The need to avoid duplication in regulatory processes is reiterated in the supplement to PPS1 Planning and Climate Change.

Planning Policy Statement 24 (PPS24): Planning and Noise – Outlines the consideration to be given to those developments with the potential to generate noise and the

need to ensure that adequate mitigation can be put in place to prevent any adverse effects on nearby noise sensitive land uses.

Planning Policy Statement 25 (PPS25): Development and Flood Risk – The aim of planning policy should be to ensure that flood risk is taken into account at all stages in the planning process to avoid inappropriate development in areas at risk of flooding and to direct developments away from areas at high risk. Where new development is necessary in such areas policy aims to make it safe without increasing flood risk elsewhere.

26. The South East Plan May 2009

Policy CC1: The principle objective of the Plan is to achieve and to maintain sustainable development in the region by prioritising amongst other matters; sustainable levels of resource use, reducing greenhouse gas emissions and ensuring the South east is prepared for the inevitable impacts of climate change.

Policy CC2: Measures to mitigate and adapt to climate change implemented through the application of local planning policy and other mechanisms recognising that behavioural change will be essential in implementing this policy.

Policy NRM1&2: Seek to protect groundwater supply avoiding adverse effects on water Quality.

Policy NRM5: Avoidance of net loss of biodiversity

Policy NRM9: Improvements in air quality.

Policy NRM11: Gives support for renewable energy and encourages LPAs to promote and secure greater use of renewable energy in new development.

Policy NRM13&14: Set out regional renewable energy targets and sub regional targets for electricity generation.

Policy NRM16: Requires LPAs to support in principle the development of renewable energy and to take into account what contribution new development could make towards meeting renewable energy targets and carbon dioxide savings.

Policy W3: Requires Waste Authorities and waste management companies to provide management capacity sufficient to achieve regional self - sufficiency together with a declining amount of waste from London.

Policy W4: Requires Waste Authorities to aim for net sub-regional self-sufficiency.

Policy W5: Targets for diversion from landfill. A substantial increase in recovery of waste and a commensurate reduction in landfill is required in the region.

Policy W12: Support for other recovery and diversion technologies including the combined generation and distribution of heat and power.

Policy W17: Waste development documents will, in identifying locations for waste management facilities, give priority to safeguarding and expanding suitable sites with an existing waste management use and good transport connections. The suitability of existing sites good accessibility from existing urban areas or major new or planned development, good transport connections, compatible land uses, including previous or existing industrial land use, contaminated or derelict land and be capable of meeting a range of locally based environmental and amenity criteria.

27. Kent Waste Local Plan Saved Policies (Adopted March 1998)

Policy W11: Identifies this site as being suitable in principle for a Waste to Energy Plant

Policy W17: Requires regard to be had to air quality and its cumulative effects such that emissions will not adversely affect neighbouring land uses

Policy W18: Before granting permission for a waste management operation the planning authority will require to be satisfied as to the means of control of:-

(i) noise
(ii) dust, odours and other emissions
(iii) landfill gas

Particularly in respect of its potential impact on neighbouring land uses and amenity.

Policy W19: Before granting permission for a waste management facility, the planning authority will require to be satisfied that surface and groundwater resource interests will be protected and that where necessary a leachate control scheme can be devised, implemented and maintained to the satisfaction of the planning authority.

Policy W20: Before granting planning permission for a waste management facility the Planning Authority will need to be satisfied that proposals have taken account of drainage and flood control.

Policy W21: Before granting permission for a waste management proposal the planning authority will need to be satisfied that the earth science and

ecological interests of the site and its surroundings have been established and provisions made for the safeguarding of irreplaceable and other important geological and geomorphological features, habitats, or species of wildlife importance. Where an overriding need requires some direct loss or indirect harm to such features, habitats or species, where practicable suitable compensatory mitigation measures should be provided.

Policy W22: When considering applications for waste management facilities the planning authority will:-

(i) normally refuse permission if it is considered that the proposed access, or necessary off-site highway improvements or the effects of vehicles travelling to and from the site, would affect in a materially adverse way:-

(a) the safety (or would exceed the capacity) of the highway network
(b) the character of historic rural lanes
(c) the local environment including dwellings, conservation areas and listed buildings.

(ii) ensure that any off-site highway improvements considered to be necessary to secure acceptable access are completed, if necessary in stages related to the development of the site, before specified operations on site commence and provided at the development's expense.

Policy W25: When considering details relating to the siting, design and external appearance of processing plant, hard surfacing, buildings and lighting, the planning authority will ensure that:-

(i) facilities are grouped to prevent sprawl and the spreading effects, and to assist screening.
(ii) Advantage is taken of topography and natural cover.
(iii) Designs and means of operation minimise visual and noise intrusion.
(iv) Appropriate colour treatment is provided, to reduce their impact and to assist their integration into the local landscape.

Policy W27: Securing and considering the interests of users of the Public Right of Way

28. Swale Borough Local Plan

Policy SP2: In order to provide a robust, adaptable and enhanced environment, planning policies and development proposals will protect and enhance the special features of the visual, aural, ecological, historical,

atmospheric and hydrological environments of the Borough and promote good design in its widest sense.

Development will avoid adverse environmental impact, but where there remains an incompatibility between development and environmental protection, and development needs are judged to be the greater, the Council will require adverse impacts to be minimized and mitigated. Where a planning decision would result in significant harm to biodiversity interests, which cannot be prevented or adequately mitigated against, appropriate compensation measures will be sought.

Policy E12: Sites designated for their importance to biodiversity or geological conservation.

Policy B2: Providing for new employment.

Policy U3: Renewable Energy - The Borough Council will permit proposals for renewable energy schemes where they demonstrate environmental, economic and social benefits and minimise adverse impacts. Before planning permission is granted, the Borough Council will consider such matters including the contribution to the regional requirement for

Policy B10: Ridham as an existing committed employment site.

Policy B11: Identifies the area in which the application site falls as having outline permission for a mix of employment uses including general industrial and storage and distribution. In this context the Borough Local Plan considers the area to be of strategic importance and considers it is unique within the borough and the wider sub-region for the range of plot sizes it can accommodate.

29. Consultations

Swale Borough Council: No objection subject to conditions covering landscaping, construction materials. investigation of use of rail infrastructure, fuel source, hours of working.

Iwade Parish Council: Considers the application remains speculative at this stage given that the source of the waste has yet to be determined. The application does not meet the general principles of Best Practicable Environmental Option given that it raises ecological issues would include waste imported from London and the south east and elsewhere contrary to the proximity principle and generate greenhouse gases through increased lorry movements in the area. Adverse impact from lorry traffic on the local road network. Latest government targets for recycling and composting reduces the need for incineration. Adverse effects from stack emissions.

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Bobbing Parish Council: Raise concerns over the impacts from traffic on the local highway network together with concerns over air quality impacts from stack emissions and also odours. Considers scale of the proposed building would be out of character with the area especially when viewed from the Nature Reserve at Elmley. Asks whether there would be any need for additional pylons to accommodate the grid connection.

Minster Parish Council: Whilst they feel a modern Waste to Energy Plant would help improve the environment rather than the old gas fired power station their two mains concerns relate to types of emissions and traffic. Asked for alternative ways of transporting waste to the site to be explored (e.g. by rail). The scale of the operation is unknown and the Parish Council would need a definitive answer on the waste catchment area.

Tonge Parish Council: Views awaited.

Bapchild Parish Council: Views awaited

Queenborough Parish Council: Views awaited

Environment Agency: Raise no objection to the proposal subject to a number of issues that would first need to be addressed including further consideration of alternative site location, more use of waste arisings on site (i.e. paper sludge etc) reducing the need to import, further analysis of the net carbon balance deriving from the use of the intended waste stream, impacts from emissions on air quality cannot be assessed pending the receipt of an Environmental Permit Application. Conditions on any future permission to include ground contamination assessment together with any associated remedial works in the event that contaminants are found present on site, development to be undertaken in accordance with the recommendations set out in the submitted flood risk assessment, fuel storage, restriction on piling or other foundation designs using penetrative methods without the express written consent of the LPA and the provision of a buffer zone between the development and surrounding watercourses

Health Protection: Considers this is a new installation which has from a public health point of view a limited potential for causing concern at this stage. However would stress that they would expect regular monitoring results for air quality as well as regular dust and odour inspections/monitoring to be forwarded to the regulators, both during construction and the operational phases, in order to ensure that the potential for any nuisance or health issues is as limited as the monitoring data suggests.

Divisional Transport Manager: Agrees with the conclusions of the traffic impact that the development would have negligible impact on the local Highway network.

Highways Agency: No objection

Lower Medway Internal Drainage Board: No objection provided all surface water drainage discharging from the site is attenuated for the 1:100 year return storm with a limited discharge of 7 l/s/ha or the equivalent run off from the Greenfield site for the 1:2 storm. The application meets with the Environment Agency requirements.

Jacobs (noise): Considers that noise levels during both site construction and operation of the plant will fall below existing background levels measured at the nearest housing. Recommends any future permission should be conditioned to this effect.

Jacobs (landscape): Considers the environmental impact assessment underestimates the significance of the visual impacts which will need to be carefully balanced against the other beneficial and adverse effects of the scheme.

County Archaeologist: Considers it may be possible that archaeological remains are present on site. Therefore advises that any future permission includes a condition requiring the implementation of a programme of archaeological investigations.

SEEPB: Considers the proposal is not entirely consistent with policies W3 and W4 of the South east Plan given the source of the waste is stated as Kent with the balance from London, the South East and elsewhere in the UK subject commercial viability. Whereas Policies W3 and W4 seek net regional and sub - regional self sufficiency with London's exports restricted to landfill and from 2016 limited residues. However, accepts there may be less certainty of supply of C & I waste from within Kent and therefore arisings may not be accessible to the plant, resulting in an insufficient supply which will affect the commercial viability of the proposal. It is therefore important that in considering the application, the county council considers these issues.

CAA: The proposed structure(s) would not formally constitute an aviation en-route obstruction. Recommends that an aviation warning light is installed at the highest practicable point of each chimney.

English Heritage: Do not wish to offer any comments and recommends that the application is determined in accordance with national and local policy guidance on the basis of the county councils specialist conservation advice.

Natural England: Whilst originally raised an object to the application pending further information being submitted to enable the effects on the nearby ecological designations to be determined have since withdrawn their objection following the submission of further supporting information. Given in their view the proposal is likely to have a significant effect on the Swale SPA and Ramsar site and also has implications for the Swale SSSI, considers that an 'Appropriate Assessment' needs to be undertaken by the County Council as the competent authority under Regulation 61 of the Habitats Directive. However, also considers that the proposal would not have an adverse effect on the integrity of the Swale SPA and Ramsar and should not damage the interest features of the Swale SSSI subject to the imposition of appropriate conditions on any future permission.

RSPB: Whilst originally raised an objection pending further discussion and clarification of the effects of the proposal on the local bird population, have since withdrawn their objection subject to the imposition of appropriate conditions to secure mitigation measures set out in further supporting information.

Kent Wildlife Trust: Originally considered that the application failed to adequately evaluate the ecological value of the site and expected a development of this scale to contribute towards the enhancement of the biodiversity. Considered the reptile survey of the

site was out of date and therefore a new survey should be undertaken in order for a mitigation strategy to be developed. However, have since withdrawn their objection subject to the imposition of conditions to secure mitigation measures set out in further supporting information.

County Biodiversity: The enhancements to the mitigation receptor area must be carried out before the translocation of reptiles from the application site. Improving the management of surrounding ditches would be more beneficial for wildlife. Lighting arrangements must be carried out in accordance with the details set out in the environmental statement The effect of lighting on bats should be undertaken. Reptile monitoring should be carried out at the development site a year after offsite translocation has taken place and the development site shall be maintained unsuitable for reptiles until such time as the development is completed No information on the management plan and monitoring of the mitigation area has been provided. A mitigation strategy must be submitted and include details of proposed works and timings.

EDF: No objection

CPRE: Whilst supporting the general principles of a waste to energy CHP Plant objects on the grounds of the cumulative effects of other similar proposals in the area, the proposal would reduce the incentives for recycling although any reduction in landfill would be welcomed. Given the existing large volumes of traffic on the local road network the importation of waste by other means should be explored. Recognise there is a known demand for power at the Paper Mill and that local employment is an important issue.

National Grid:
Public Rights Rights of Way:
County Conservation Officer:
MOD:

Views awaited.

Local Members

30. The two local members Mr Willicombe and Mr Whiting were formally notified of the proposal on 15 April 2010, to date I have not received any written comments from them.

Representations

31. The application has been advertised in the local press and notices posted on site and in the surrounding locality, I also wrote to some 2,400 nearest local residents. To date I have received 28 letters of representation, 1 in support of the proposal from Unite the Union who purport to represent some 450 members of the 800 locally employed staff at the Paper Mill site. They draw attention to the need for the Mill to remain competitive and that the proposal would help secure a sustainable future for the mill and protect local jobs. The other 27 letters raise objections to the proposal on the grounds of:

- Traffic impacts
- Adverse effects from stack emissions
- Visual intrusion
- Adverse impacts on nature conservation

Discussion

32. Section 38(6) of the Planning and Compulsory Purchase Act 2004 requires that planning applications are determined in accordance with the development plan unless material considerations indicate otherwise.

32. Prior to the publication of PPS10 and Waste Strategy 2007, former advice required planning authorities to consider whether waste planning applications constituted the Best Practicable Environmental Option (BPEO). Case law established that consideration of BPEO against individual applications should be afforded substantial weight in the decision making process.

33. The new advice in PPS10 moves the consideration of BPEO principles to the Plan making stage where it is to be considered as part of the Sustainability Appraisal (SA)/Strategic Environmental Assessment (SEA) process applied to the Plan. However, where planning authorities' current waste policies have not been subject to the SA/SEA process (as is the case with the Kent Waste Local Plan), it is appropriate to consider planning applications against the principle of BPEO.

34. Until such time as the **Kent Waste Development Framework** (WDF) reaches a more advanced stage, applications will be considered against relevant saved Kent Waste Local Plan Policies and other development plan policies. This is fully consistent with the approach Local Planning Authorities are advised to adopt as set out in PPS10.

35. Policy exists at both the national, regional and local level which give support in principle for the establishment of alternative waste management facilities to landfill. These include Waste to Energy Plants, particularly where they also involve combined heat and power generation (CHP), where waste should be recovered as a resource to produce energy. Such objectives also support the aim of how planning should contribute towards reducing the carbon footprint by lowerimng emissions and stabilising climate change.

36. The current energy requirements at Kemsley Paper Mill are already partially met on site through a combination of a CHP, albeit fuelled by natural gas, together with a Waste to Energy Plant which burns rejects from the paper making process. The site at Kemsley is also identified under Policy W11 of the saved policies of the Kent Waste Local Plan as being suitable in principle for a Waste to Energy Plant.

Main determining issues

37. In the light of the above policy considerations and the issues raised, I consider the key determining issues to be:

- Traffic
- Air Quality
- Water Quality and Floodrisk
- Landscape
- Nature conservation and ecology
- Noise
- Employment

38. Furthermore, account will need to be taken of the source of the waste arisings, taking account of the proximity principle (i.e. where waste should be dealt with as close to where it occurs in order to reduce vehicle journey distances) and having regard to both current regional and local development plan policies which aim to achieve regional and sub-regional net self-sufficiency, and the existing and future waste capacity requirements for Kent.

Traffic

39. Access for the delivery of waste to the site would be by road from the west assuming vehicles would exit at junction 5 of the M2 via the A249 and Swale Way. The applicant predicts that when operating at full capacity the proposal would generate a maximum of 258 daily HGV movements which would equate to some 22 movements per hour. Whilst it is currently assumed all waste would be delivered by road the applicants have indicated that they are pursuing other options for delivery by water and /or rail should this be feasible.

40. Concerns have been raised over the adverse impacts from lorry traffic on the local road network in terms of the existing capacity available. Particular concerns have also been raised by one of the local County Members over what he considers to be problems encountered at the small roundabouts at the A249/Grovehurst Road Junction. In his opinion visibility is poor and could be improved by reducing the size of the central island, and asks whether such improvements could be secured if Kemsley were to be permitted. He also asked whether it would be appropriate to seek a financial contribution from the applicant towards the construction of the remainder of the Sittingbourne Northern Relief Road (SNRR).

41. The Transport Assessment submitted in support of the proposal is considered by the Divisional Transport Manager (DTM) to give a robust indication of the traffic expected to use the local highway. This takes account of other committed development, the proposal itself along with the effects of the opening of the next section of the SNRR. The proposal is shown to generate relatively insignificant increases on the local network as a whole and the DTM concurs with the conclusion that the development would have a negligible impact on the local highway network. With regard to the layout of the small roundabouts at the A249/Grovehurst Road junction he has confirmed that there is no crash history associated with these and although HGVs squeeze the path

of other vehicles as they negotiate the first roundabout drivers appear to be aware of the need to give HGVs a wide berth as they enter at this location. Whilst reducing the size of the roundabout may provide more room for HGVs to manoeuvre around the central island, in his opinion this would also reduce the amount of deflection that vehicles would need to steer around to enter the junction. The result of this would be higher vehicle entry speeds such that this could result in accidents. The DTM has raised no objection to the application subject to the imposition of appropriate conditions including wheel cleaning measures, vehicle parking and completion and use of the access in accordance with the details submitted with the application.

42. With regard to other stretches of the carriageway that would serve access to the site, which includes junction 5 exit from the M2 and the slip roads onto the A249 leading to the large gyratory roundabout providing access to the internal haul roads, this is the responsibility of the Highways Agency who have raised no objection to the application.

43. With regard to the question of a financial contribution from the applicant to the construction of the remainder of the SNRR I am mindful that the necessary funding to complete these works has already been secured.

44. Having regard to the above comments and in the absence of any objections from the Highways Agency and DTM, I do not feel an objection on highway grounds is justified.

Air Quality

45. Concerns have been raised over the potential impacts from the proposal on air quality both in terms of stack emissions and their effects on health and the surrounding ecological designations, together with the effects from vehicle exhaust fumes. The environmental statement which accompanied the application has assessed the potential effects on air quality through detailed dispersion modelling. It includes the effects of both stack and vehicle exhausts and dust emissions having regard to existing baseline conditions, and has assessed their potential impacts on human health and the nearby habitats which form part of the Swale SPA , Ramsar site and Swale and Medway Estuary SSSI's. The assessment has been undertaken based on a number of worse-case assumptions which it considers is likely therefore to result in an over-estimate of the contributions that would arise from the operation of the plant. The assessment concludes that with appropriate mitigation measures in place, emissions from all three sources when measured against existing background levels would fall below EU Directive limits and local air quality standards.

46. The mitigation recommended includes the employment of dust controls such as the use of water bowsers during site construction and that all vehicles associated with this particular activity to switch off their engines to avoid vehicles idling and all deliveries entering and leaving the site to be covered. Residual impacts from the operational phase both from stack emissions and traffic are also considered negligible and not likely to exceed EU Directive emission limits or local air quality standards. Accordingly residual impacts on human health risk and ecological impacts are not considered significant.

47. The Health Protection Agency has raised no objection to the proposal and considers that from a public health point of view the proposal has a limited potential for causing concerns at this stage. However, they would expect regular monitoring and inspections monitoring for air quality as well as regular dust and odour monitoring inspections to be forward to the regulators in order to ensure that the potential for any nuisance or health issues is limited as the monitoring data set out in the environmental statement suggests.

48. In their initial response, whilst raising no objection the E.A indicated that in the absence of having received an application for an Environmental Permit they were unable at that time to form a final view on potential impact to air quality, human health, designated habitats or the control of nuisance impacts (e.g. noise/odour). Since then matters have progressed and an application for a Permit was submitted to the E.A. towards the end of last year on which the County Council were formally consulted. As part of their assessment of the application the E.A. looked not only at the potential effects as a result of the emissions from the proposed development itself but also the combined effects of new and existing permissions, plans and projects that are relevant to an area protected under the Habitats Regulations due to the close proximity of the site to the various habitats which form part of the SPA/SSSI/Ramsar. Whilst the E.A. have yet to form a final view and are continuing to have discussions with various consultees including N.E. they have undertaken an audit of the Air Quality Modelling submitted with the Permit application. The audit concludes there is no risk to Human Health from the proposal. The National Permitting Service has also indicated that this is supported by the Health Protection Agency.

49. The policy advice set out in PPS23 is clear in that the planning and pollution control regimes should compliment and not duplicate each other. Most fundamentally Planning Authorities are asked to work on the assumption that the relevant control regime will be properly applied and enforced. In this context, having regard to paragraph (40) above I am satisfied that there are no material reasons to justify refusing the application on the grounds of adverse effects on air quality.

Water Quality and Flood risk

50. The applicant has assessed the likely impact the development may have on hydrology, controlled waters and human health given the current ground conditions. The site was previously used as a coal store and refuse tip and is now largely derelict with some stockpiled material in the west. The site is characterised by made up ground and alluvial clays that immediately overlie London clays with silty sands beneath. Perched water was found at a shallow depth in the London clay which is separated from the true groundwater found in the granular deposits at depth. The flow of water in both bodies is towards the Swale to the east where it ultimately discharges.

51. Baseline assessments of pollutants found elevated concentrations of brown asbestos, nickel, selenium and sulphates within the shallow elevated groundwater. These concentrations were considered acceptable for an industrial/commercial end use and would not represent a risk to construction workers. Elevated concentrations of nickel and sulphate found at a deeper level in what is considered to represent the true

groundwater are considered representative of the natural baseline concentrations associated with the underlying strata compared to the surface contamination detected.

52. The principal concerns following the baseline assessment relate to the risk to human health caused by groundwater ingress to deep excavations, the lateral migration of contaminated shallow groundwater towards the Swale and asbestos found in the shallow soils and groundwater. To address this it is proposed to target those specific areas within the site where such contaminants are found present, as part of a Construction Environmental Management Plan.

53. The E.A. consider that the proposals to deal with any contamination on site are acceptable in principle, however they would wish to see further consideration of whether there is a link between the contamination found in the shallow groundwater and the adjoining landfill site. In order to address this issue along with how contamination found present at the site will generally be dealt with the E.A. have recommended that conditions be imposed on any future permission requiring the submission of a preliminary risk assessment along with details of any remedial measures proposed to deal with any contaminants found present on site. I am satisfied that provided such conditions are imposed on any future permission this would ensure that appropriate measures are put in place to prevent any risk to human health or adjoining ecological interests from groundwater pollution.

54. The applicant has also produced a Flood Risk Assessment (FRA) in support of the application, the scope of which was previously agreed with the E.A. having regard to advice set out in PPS25. The site lies partially within Flood Zone 2 and 3a and therefore has a 1 in 200 annual probability of flooding from tidal sources in any one year. The Swale Estuary is located to the east of the site, flowing in an easterly direction until it meets with the North Sea approximately 16km to the east of the site.

55. Following re-profiling of the development site to 5.8m AOD (i.e. some 0.6m above the 5.2m critical flood level), the development will have been uplifted outside the flood plain falling entirely within Flood Zone 1, with less than 0.1% probability of flooding from tidal sources. Given that the site does not form part of the functional floodplain, the effect on flood storage capacity is considered to be negligible. The site would incorporate a surface water drainage system which drains into surrounding surface water attenuation ponds as a means of regulating discharges to the surrounding watercourses. This, together with the elevated platform that would be created, would in the applicants' opinion protect the site from risk of flooding to a 1 in 100 year standard from on-site flooding.

56. The E.A. have raised no objection to the application on the grounds of flood risk provided that a condition is imposed on any future permission requiring the development to be carried out in accordance with the FRA submitted as part of the application. On this basis I am satisfied that there are no overriding objections on the grounds of risk from flooding.

Landscape

57. The proposed site is located immediately adjacent to the eastern side of the Kemsley Paper Mill Complex which lies in between the application site and Kemsley. Kemsley Paper Mill and the application site also form part of a much larger area identified in the Swale Local Plan for future employment use and which has outline permission for the development of mixed industrial uses. For this reason the borough Local Plan considers the area is strategically important and it can therefore be expected that other major development proposals will come forward in the future. In addition to the Paper Mill the area also contains a number of other major developments including the Knauf Plaster Board factory and the Morrisons distribution depot. Members may recall when they visited the site that officers pointed out these developments commenting in particular that the Knauf building was of a similar scale and height to the proposed development at Kemsley Paper Mill.

58. The applicants have undertaken a landscape and visual appraisal of the proposal which includes an assessment of the visual impact in the landscape when viewed from various locations surrounding the site considered most sensitive to the development. This included various views taken along the Saxon Shore Way which runs along the northern boundary of the site and also Kemsley residential edge, along with more distant views from the general surroundings. The more distant views demonstrate that the area is already dominated by large industrial buildings including the existing Kemsley Paper Mill, and in my opinion the additional visual impacts from the proposed development would not therefore significantly alter this industrial landscape. When in close proximity to the site, particularly when viewed from the Saxon Shore Way, the impact would be more severe. However, this impact has to be considered against what can already be seen which is currently dominated by Kemsley Mill which is of a similar scale and height.

59. In order to help mitigate the visual impact of the proposed development particularly when viewed from a distance, the applicants propose that the external finish of the building is graduated such that at the lower level the colour would reflect that of the marshland in the foreground with a lighter grey colour being used in the upper levels when viewed above the skyline.

60. Having regard to the comments made by the County Council's landscape consultants Jacobs, in my opinion the mitigation measures proposed by the applicants represent a satisfactory balance when considered against other benefits that would derive from the proposal. The external finish of the building would in my opinion help absorb the development into what is an industrialised landscape particularly when viewed at a distance. This view is also likely to become more predominant as further industrial development becomes established given the strategic importance of the area for future employment as reflected in those policies set out in the Swale Borough Local Plan do not therefore consider there are any overriding landscape objections to the proposal.

Nature Conservation and Ecology

61. Whilst the site itself is not covered by any statutory nature conservation designations it lies near to habitats which form part of the Swale SSSI and the Medway Estuary and Marshes SSSI. These SSSIs are part of the Swale SPA and Ramsar Site and the Medway Estuary and Marshes SPA and Ramsar Site. Natural England (N.A.) have advised that based on the information contained in the application it is their view that the proposal is likely to have a significant effect on the Swale SPA and Ramsar Site, alone or in-combination with other plans and projects and that there are also implications for the Swale SSSI. In this context they draw attention to Regulation 61 of the Habitats Regulations which requires 'competent authorities' , before deciding to give any consent to a project which is (a) likely to have a significant effect on a European site (either alone or in combination with other plans or projects), and (b) not directly connected with or necessary to the management of the site, to undertake an Appropriate Assessment of the implications for the site in view of its conservation objectives.

62. Notwithstanding the above however, N.E. agree that the proposal will not have an adverse impact on the integrity of the Swale SPA and Ramsar Site and should not damage the interest features of the Swale SSSI provided conditions are imposed on any future permission requiring; the submission of a detailed Environmental Management Plan with Construction Method Statements, Work on the drainage outfall not to take place during the over-wintering bird season October to March inclusive, a lighting strategy to be submitted for the approval of the LPA and provision of a 1ha reedbed habitat offsite to offset any potential affect to breeding Marsh Harrier.

63. The methodology used by the applicant for assessing the potential impacts on ecology and nature conservation involves 4 key stages namely; baseline studies, identification of valued ecological receptors, identification and characterisation of potential impacts and assessment of impact significance. The survey methodology included a desk based study together with walkover surveys of the site and surrounding areas. These surveys sought to identify: Reptiles, Invertebrates, Birds, Water Voles, Otters, Badgers and potential Bat roosts. The results of the surveys revealed that with regard to Otters, Badgers and Bats there was no evidence of their presence on the development site. Whilst offsite feeding signs of Water Voles in adjacent ditches were indicated.

64. The most likely potential significant impacts from the development were identified as being the direct impacts resulting from the loss of suitable habitat for reptiles and invertebrate from the development site, together with offsite impacts from noise, dust and stack emissions on the breeding bird population and surrounding features of ecological interests.

65. In order to address concerns raised by consultees the applicant submitted supplementary information in respect of both on-site and offsite mitigation. With regard to the direct impacts on the development site, in addition to the enhanced areas of habitat which include the surface water attenuation ponds, it is also proposed that a further 3.1 ha of suitable habitat would be created on the adjoining former landfill site to the east into which species from the development site would be translocated. The County Council's Biodiversity Projects Officer has drawn attention to the need to

ensure that the habitat to be created is satisfactorily completed before any translocation exercise from the development site takes place and that reptile monitoring continues to take place on the development site until such times as construction takes place. This is also supported by N.E. who whilst welcoming the additional habitat to be created considers that a detailed strategy should be submitted and approved before the commencement of any works. They also consider it is important that the long-term management of this area is also secured by way of condition or Section 106 Agreement.

66. Offsite mitigation measures include the provision of a 1 ha site in a more remote area considered suitable for use by the breeding Marsh Harrier population of the Swale SPA. The applicants propose to agree the detailed design of the habitat with the RSPB, N.E. and SEEDA. Such offsite mitigation would need to be secured by a separate Legal Agreement the draft terms which I consider would need to be covered are set out under Appendix (2).

67. Other offsite mitigation proposed includes measures to prevent any adverse noise impacts from construction activities. The main noise source is considered to be from piling. In order to avoid any adverse impacts from piling on the breeding bird population a more detailed piling strategy has been developed which provides for the use of augered piling where practical and impact driven piles only where absolutely necessary. It is also proposed that impact piling would only commence on site at the end of August to avoid any disturbance to breeding birds.

68. With regard to Air Quality Impacts in terms of deposition levels at the nearby sensitive receptors, the assessment undertaken by the applicant concluded that the habitats were considered to be relatively insensitive to acid deposition and therefore unlikely to affect the integrity of the Swale SSSI/SPA/Ramsar. However, during discussions with N.E. they indicated that they have been looking at the issue of NOx in respect of this application in view of monitoring that has been undertaken on Elmley having revealed high levels of background concentrations. However it was due to the uncertainty of the figures and that currently there is little research on the long-term effects of elevated levels of NOx on grazing marsh and inter-tidal habitats that partly led to them withdrawing their original objection to the application. Nevertheless they recognise that the applicant would still need to apply for an Environmental Permit from the E.A. and confirm that they have highlighted their concerns with the E.A. Whilst not a requirement for this application, in view of the monitored hotspots for air pollutants on Elmley, N.E. have requested that any future proposals for development in the area should undertake a more robust analysis of air quality. Meanwhile due to the increasing number of NOx emitting facilities in the Ridham Dock area the applicant has voluntarily agreed to form part of a long-term air quality monitoring programme for the area. The details of the programme will be compiled through discussions with N.E., Swale Borough Council and the E.A.

69. As advised by N.E. the County Council as the competent authority, in tandem with its consideration of the application has undertaken a separate Appropriate Assessment in accordance with Regulation 61 of the Habitats Directive. The formal record of the Appropriate Assessment is set out under Appendix (3) which concludes that provided certain mitigation measures are put in place the proposal would have no adverse effects on the integrity of the sites of interest.

Noise

70. A Noise Assessment submitted in support of the application has been undertaken. The methodology employed included a comparison of the existing daytime and night time background noise levels at what are considered to be the nearest noise sensitive receptors with those both during the site construction activities and when the site becomes operational. Four locations were identified, three of which, at Reams Way (*along the haul Road to the site*), Walsby Drive (*the nearest residential properties in Kemsley*) and within the centre of a reedbed adjoining the northern boundary of the site considered representative of the potentially noise sensitive ecological habitats, were subject to long term noise monitoring over a 24hr period. The fourth location was at the Saxon Shore Way adjacent to the northern boundary of the site where a 15 minute measurement was taken.

71. Noise levels when measured at the nearest residential properties are not predicted to rise above the existing background levels either during site construction activities or when the plant becomes operational. Noise levels when measured along the Saxon Shore Way are predicted to rise when the plant becomes operational to between 52 and 60 dB and will therefore be noticeable to walkers as they pass the site. For comparison based on guidance provided by the World Health Organisation general daytime levels of 55 dB are desirable to prevent any significant community annoyance. The figure of 55dB has been taken to be free-field and therefore no adjustments have been made for road and rail traffic noise. However, these receptors are temporary and transitory and the applicant considers it is not therefore appropriate to apply the same criteria as that which would apply to long term outdoor amenity receptors. The applicant therefore considers that it would not be unreasonable to expect walkers to tolerate noise levels around 60dB for a limited period whilst passing the site and it is unlikely therefore that walkers would be significantly adversely affected by noise associated with the operation. I would concur with these conclusions. Similar noise levels are predicted to occur at the Reedbed location during site construction with noise levels during the operational phase varying between 30 to 35dB at the intertidal area of Milton Creek where the majority of watering birds would be expected to congregate. On this basis I do not consider that noise from the proposal would cause any unacceptable disturbance to the local bird population.

72. The County Council's noise advisor Jacobs concurs with the applicant that noise levels both during construction and operation of the plant would fall below existing background levels when measured at the nearest housing and recommends that any future permission be conditioned to this effect. In my view having regard to the conclusions of the Noise Assessment and the comments made by Jacobs I do not consider there are any overriding nose objections to the proposal.

Employment

73. Kemsley Paper Mill currently employs around 800 staff many of whom the applicants claim live locally. In addition, there are a further 205 contractors working full-time many of whom are also employed locally. The Mill is clearly therefore a major local employer in the area.

74. The current proposal would generate additional employment both at the construction stage and also when the plant becomes operational. The applicants estimate that up to 500 staff would be required during the construction phase. One of the key issues at the construction phase would be the extent to which main contractors and sub-contractors attempt to use local labour or that from outside. Normally this is a combination of the two with imported labour more likely to consist of workers with specialist skills, and locally sourced labour consisting of unskilled and semi-skilled labour. Construction workers, especially those with specialist skills are known to travel significant distances to sites for which the construction period may be of a limited duration.

75. Once the site becomes operational the applicant's estimate that some 50 full time jobs would be created, some of which would require particular management and technical skills which may not necessarily be able to be sourced locally. However, in my view there would still be scope for at least some of the additional labour force to be sourced from the local area. In addition the applicants have indicated that an average of 100 contractors would be employed for planned shutdowns. The applicant's state that that such skills need not be acquired in the waste industry industry or in a plant of this nature and that suitable personnel could be recruited from industries with similar characteristics. Notwithstanding the clear need for people with appropriate skills, it seems likely that the required labour could be sourced without difficulty in the immediate area and from Sittingbourne itself. This is especially so given the high proportion of manufacturing jobs in the area and the average distance people already travel to work.

76. The Mill is clearly therefore already a major employer in the area and in my opinion the current proposal represents an opportunity to play a significant role in increasing the local labour market.

77. Members may be aware of an announcement made in the coalition government's Budget last month when the Chancellor of the Exchequer issued a call to action on growth, publishing an ambitious set of proposals to help rebuild Britain's economy. The Government's top priority is to promote sustainable economic growth and jobs, and as a fundamental means to achieve this considers the planning system has a key role to play by ensuring that the sustainable development needed to support economic growth is able to proceed as easily as possible. Government's clear expectation therefore is that there should be a strong presumption in favour of development except where this would compromise the key sustainable development principles set out in national planning policy.

78. In order to achieve government's aspirations, notwithstanding the applicants have argued the proposal would not only help safeguard existing jobs at the Paper Mill but also provide the potential to create additional local employment, I consider that it would be appropriate to have some form of legally binding commitment from them that where possible employment would be sourced locally. In my opinion this is best secured by way of a separate Legal Agreement and should members be minded to grant permission I would strongly recommend this approach.

79. In support of their proposal the applicants have argued that the primary driver is to meet the future energy requirements of the Paper Mill in a viable and sustainable

manner, thereby reducing its dependence on fossil fuel, improving the carbon footprint of the mill, ensuring a degree of energy supply security, improving the mill's competitive position and most importantly as discussed above, safeguarding and securing employment in the locality. The energy requirements at the mill are currently met on site by a CHP plant fuelled by natural gas and by a Waste to Energy Plant which burns reject materials from the paper making process. The applicants claim that the mill is a major energy consumer the cost of which represent 25% of the annual turnover. With continuing volatile gas prices and other European markets being less regulated this has put Kemsley Mill and other UK operators at a disadvantage resulting in 22 paper mills in the UK having closed over the past 5 years 3 of which were in Kent.

80. The applicants argue that rather than being a stand alone proposal the proposed plant at Kemsley is unique in that it would be specifically designed to meet the needs of the mill using residual waste as a fuel (i.e. waste which has been subjected to some form of pre treatment) with the secondary benefit of providing new capacity for Kent's non-municipal waste arisings. The proposed throughput of 500,000 to 550,000 tonnes per annum of waste used as a fuel has been specifically designed to meet the energy requirements of the mill in parallel with a reduced reliance upon the existing gas fired CHP Plant.

81. The waste used as a fuel would comprise Solid Recovered Fuel (SRF) Waste and Industrial and pre treated Municipal Solid Waste which may include up to 25,000 tpa of waste plastics arising from the paper making process at the mill. It is intended that the waste would be sourced from London, the South East and elsewhere in the UK subject to commercial viability with approximately 100,000 tpa of Kent's non municipal waste arisings. The applicants argue that in order to secure the necessary funding to build the plant, they would need to demonstrate to the Financial Institutions the security of the revenue stream which they claim is typically in the order of 80% of the incoming waste stream and which would need to be tied to long term contracts. MSW contracts led by Waste Disposal Authorities are typically long term, often between 25 to 30 years. This, the applicants claim provides certainty to lenders in funding schemes of this nature. All of Kent's MSW arisings is currently tied to long term contracts. On this basis if the applicants were to include an element of MSW as part of their waste source this would have to be sourced from outside the County. Whereas C & I waste streams, the majority of which currently goes to landfill, are characterised by short term contracts, typically less than 3 years. Accordingly if the applicants were to rely solely on these contracts they would not provide the long tern security to the Financial Institutions for them to lend the money to fund the project. Whilst the applicants consider their proposal would contribute to diverting some 100,000 tonnes of such waste from landfill equating to some 20% of the plant's capacity, such sources originally included residual C & I waste from Kent and its immediate hinterland, which the applicant identified as being Medway, Bexley, Bromley, Thurrock and Tandridge. As explained above, the security of the revenue stream that underwrites the facility, which is typically in the order of 80% of the incoming waste stream will need to be tied to long term contracts. Inevitably given that all of Kent's MSW is contractually committed, if the project is to succeed this implies 80% of the waste consisting of SRF will need to be sourced from outside the County.

82. Policy W3 of the South East Plan requires Waste Authorities to provide capacity sufficient equivalent to the amount of waste arising and management within the region's boundaries, plus a declining amount of waste from London. Currently provision for London's exports are limited to landfill and by 2016, new permissions will only provide for residues of waste that have been subject to recycling or other recovery processes.

83. Policy W4 requires Waste Planning Authorities (WPAs) to plan for sub-regional self sufficiency through provision for waste management capacity equivalent to the amount of waste arising and requiring management within their boundaries. It also states that that a degree of flexibility should be used in applying the sub-regional self sufficiency concept where appropriate consistent with Policy W3. This does not therefore preclude cross border flows across regional and sub-regional boundaries.

84. Policies W3 and W4 of the South East Plan reflect advice set out in PPS10 which suggests that WPAs should not arbitrarily restrict the movement of waste across borders. The underlying objective of PPS10 is to move waste management up the 'waste hierarchy ' using waste as a resource and to consider disposal as the last option. Having regard to the current proposal, as one of a number of means to secure sustainable energy supplies which reduce the reliance on the use of fossil fuels and hence helps meet the climate change agenda, provided it can be demonstrated that the waste to be used as a fuel in the plant at Kemsley will arise from treated sources, then in my opinion this is fully consistent with the objectives of PPS10. However, having regard to Policies W3 and W4 of the South East Plan I consider it is important that the potential for dealing with Kent's waste is also maximised.

85. Following discussions with the applicants over waste sources in the context of the above policy considerations the applicants agreed to revise the hinterland catchment area for residual C & I waste by excluding the London Boroughs of Bromley and Bexley. Further, the applicant has also supported a restriction such that all waste used as a fuel at the site other than that arising in Kent would be required to be pre treated so as not to preclude any untreated waste arising from within the County being processed at the site. With such restrictions in place I am satisfied that the proposal is consistent with those policy considerations as set out in paragraphs (74) to (76) above.

Conclusion

86. Whilst this application has been considered as a 'waste matter ' and considered against those relevant policies as set out in national and regional guidance along with the relevant development plan policies, the proposal is clearly primarily driven by the need to meet the future energy requirements of Kemsley Paper Mill as opposed to the need for a waste treatment facility per se. On this basis whilst it has been appropriate to consider how the facility could fulfil a role in providing future waste management capacity, in my opinion the argument put forward by the applicant for the need for the Paper Mill to remain competitive in the light of European competition, and most fundamentally in order to safeguard local jobs with the potential for creating additional local employment opportunities, is a major factor when weighed against other material considerations. Should permission be granted however, I would wish to ensure that in the event that the facility is no longer required to meet the needs of Kemsley Mill then

alternative users of the power generated should be sought. I would recommend that this is secured by way of condition.

87. I am satisfied that having regard to consultees comments and having considered the proposal against the relevant national and regional guidance along with those relevant development plan policies, provided appropriate conditions as recommended are imposed on any future permission together with the completion of a Legal Agreement to secure those matters as set out in the Draft Heads of Terms set out under Appendix (2), there are no overriding objections to the proposal.

Recommendation

88. I RECOMMEND that SUBJECT TO the satisfactory completion of a legal agreement to secure the Draft Heads of Terms as set out under Appendix (2) PERMISSION BE GRANTED subject to conditions covering amongst other matters; hours of working, vehicle movements, noise restrictions, ground contamination, flood risk, fuel storage, surface water discharge, archaeology, lighting, ecology, alternative users of power generation, landscape planting and construction materials, investigation of alternative use of rail and waste sources.

89.

Case Officer – Mike Clifton	Tel no. 01622 221054
Background Documents - see section heading	

Appendix 1

APPLICATION SW/10/TEMP/0016 – SUSTAINABLE ENERGY PLANT TO SERVE KEMSLEY PAPER MILL AT LAND TO THE EAST OF KEMSLEY PAPER MILL, KEMSLEY, SITTINGBOURNE ME10 2TD

NOTES of a Planning Applications Committee site meeting at Kemsley Paper Mill on Wednesday, 7 July 2010.

MEMBERS PRESENT: Mr R E King (Chairman), Mr J F London (Vice-Chairman), Mr C Hibberd, Mr J D Kirby, Mr R J Parry, Mr R A Pascoe, Mr M B Robertson and Mr C P Smith.

OFFICERS: Mrs S Thompson and Mr M Clifton (Planning); and Mr A Tait (Legal and Democratic Services).

SWALE BC: Cllrs C Foulds, B Stokes, R Truelove and G Whelan.

IWADE PC: Mr P Wilks

THE APPLICANTS:
St Regis Paper Company Ltd: Mr C Rosser and Mr W Faure Walker;
E.On Energy from Waste UK Ltd: Mr N Badri and Mr N Chan;
RPS Consultants: Mr J Standen.

(1) The first part of the meeting was held in the Offices of St Regis paper Company.

(2) The Chairman opened the meeting by explaining that its purpose was to enable Members of the Planning Applications Committee to gather the views of interested parties and to familiarise themselves with the site.

(3) Mr Clifton said that he would introduce the application at the application site. He then invited the applicants to explain the overall context.

(4) Mr Faure Walker (Divisional Commercial Director – St Regis Paper Company) said that St Regis Paper Company Ltd was one of the largest paper companies in the UK. It owned 4 paper mills of which Kemsley Mill was the largest. St Regis recovered 1.3 million tonnes of recycled paper per annum and, in turn produced 1.1 million tonnes which was used for packaging, plasterboard liner amongst other end products. They worked in partnership with E-On Energy From Waste who had a high reputation gained from running 17 waste plants in Europe.

(5) Mr Faure Walker then turned to Kemsley Mill itself. He said that it had been running since 1925 and now had a total capacity of some 800,000 tonnes of paper and pulp per annum. This represented tremendous exponential growth since St Regis had acquired the operation in 1988.

(6) The entire paper industry had struggled in recent times, partly due to escalating and volatile gas costs. Twenty mills had closed over the last few

years. For this reason, St Regis intended to diversity its power source whilst reducing its carbon footprint. Since 1993, Kemsley Mill had been powered by a Combined Heat and Power Plant (CHP) which had been developed by E-On to replace a coal-based plant.

(7) Mr Faure-Walker concluded his presentation by saying that the construction of the Sustainable Energy Plant (SEP) was a major strategic project which would enable St Regis to compete on an even playing field with continental companies. It would enable the applicants to safeguard the 800 mainly skilled jobs at the mill as well as adding another 50 to run the plant. The building phase would provide employment for 500 construction workers.

(8) Following the presentation, Members were taken to the application site. They travelled along the route that would be used by HGVs along Barge Way to the proposed northern entrance.

(9) Mr Clifton introduced the application itself. It was for a Sustainable Energy Plant containing a waste incineration facility and associated developments. The development site would be within an area of 7 hectares, with the plant area taking up 4.6 hectares.

(10) Mr Clifton then pointed out the footprint of the proposed plant itself, including the boundary of the former landfill site to the east and the area where the grass became a darker shade of green to the west.

(11) Mr Clifton said that the site contained protective species. The applicants would therefore be required to provide attenuation ponds to encourage wildlife and a translocation scheme for reptiles to the former landfill site.

(12) When operating at maximum capacity, the plant would use up to 555,000 tonnes per annum of pre-treated waste as a fuel source. The majority of the waste would arise in Kent, although some would come from London and the rest of the South East. It would consist of pre-treated commercial and industrial waste as well as municipal solid waste.

(13) Mr Clifton said that the main building would be 52 metres in height (about the height of the Knauf building to the north of the site). The top half of the building would be painted a lighter colour to reduce its visual impact. The stack would be similar in design to that at Allington and would be 90 metres high. This was some twenty metres higher than those in the paper mill.

(14) Fly ash arising from the flue gas treatment would be loaded into sealed container vehicles and transported for disposal within a permitted facility. The bottom ash would be weathered and made available as secondary aggregate. Any bottom ash that could not be sold would be disposed of in the same way as the fly ash.

(15) Waste fuel deliveries would be between 7am to 6pm on Mondays to Fridays and from 7am to 1pm on Saturdays. The plant itself would have to operate on a continuous 24 hour basis throughout the week.

(16) Mr Clifton then said that the statutory consultees had raised issues relating to stack emissions and traffic impacts. Natural England, RSPB and the Kent Wildlife Trust had raised concerns relating to the impact of the proposed development on the various designated areas (SSSIs, SPA and Ramsar sites). These issues were the subject of ongoing consultation.

(17) Mr Clifton concluded his presentation by saying that some 2,500 local residents had been written to. Twenty seven letters of representation had been received objecting to the proposal on the grounds of traffic impacts, stack emissions, visual intrusion and adverse impacts on nature conservation.

(18) Mr Robertson asked for further detail on the weathering process for the bottom ash. Mr Clifton said that it would be graded and stored in rows within an enclosed building for some three months. . This meant that the process would be completely dry.

(19) Mr Robertson then asked how many lines of operation there would be. He knew that that the main problems faced by the Allington incinerator had arisen on those occasions when there had been a complete shutdown. Mr Chan (E-On) said that there would be two boilers but that only one of them would be running for 96% of the time. Mr Badri (E-On) added that the plant would operate at 95% availability. All waste brought onto the site would be kept completely covered within an enclosed building. In the event of a shut down, the boilers would be *completely* emptied.

(20) Mr Wilkes (Iwade PC) said that the application needed to be considered in the light of the recently-permitted biomass power plant at Ridham Dock and two other current applications for incinerator plants in the vicinity. Iwade PC was concerned about the cumulative impact of emissions if all four were permitted. In respect of this particular application, there was concern over the proximity of the site to the local RAMSAR site on the other side of the nearby sea wall.

(21) Mr Clifton said in reply to Mr Wilkes that the applicants had needed to undertake a Dispersion Modelling exercise to determine the height that the stack would need to be in order to prevent impacts on the designated sites. He confirmed that the County Planning Authority would determine all three of the outstanding waste to energy applications, taking into account the cumulative impacts.

(22) Mr Wilkes then said that the site contained species, such as Great Crested Newts that were protected by Law. Mr Clifton replied that this had been recognised by a survey that had been undertaken in 2007. Any permission granted would contain a condition requiring translocation.

(23) Mr Truelove (Swale BC) asked whether there was a risk of contaminated waste being brought on site. Mr Clifton said that the type of waste brought on site would be determined by the contractor. It would be stored in sealed containers after having been pre-treated. Possible methods of pre-treating included shredding and recycling. Whatever biological, thermal or chemical process was used, the waste that would be used in the plant would be residue that was incapable of recycling.

(24) Mr Parry asked what proportion of the mill's power would be supplied by the plant and also how many lorry movements would be needed to transport the residual ash off the site.

(25) Mr Faure Walker replied to Mr Parry by saying that the plant would provide 48.5 megawatts of power capacity. This would equate to around one third of the mill's heat demand, with the other two thirds being provided by the CHP. The plant would actually have the capacity to provide all of the mill's power. Mr Standen (RPS Consultants) added that the removal of residual ash was included in the estimated 258 daily lorry movements (22 per hour).

(26) Mr Robertson asked what the total energy recovery percentage was expected to be and how much carbon would remain in the ash. Mr Badri replied that the recovery rate was expected to be in excess of 70% and that the intention was to remove all the energy (including carbon) from the ash before it left the site.

(27) Mrs Thompson said that the earliest date for the application to be reported to Committee was October 2010.

(28) The Chairman thanked everyone for attending. The notes of the meeting would be appended to the report to the determining Committee meeting.

Appendix 2

DRAFT HEADS OF TERMS

For Agreement in connection with Planning with Planning Application SW/10/444 –Development of a Sustainable Energgy Plant to serve Kemsley Paper Mill. Land to the East of Kemsley Paper Mill, Kemsley, Sittingbourne, Kent.

Prior to the issue of the Planning Permission the applicant shall enter into all of the necessary legal agreements required to secure the following matters at no cost to the County Council;

1. The Developer will not commence development on the application site until:-

   (a) the freehold of the estate of the land shown edged red on plan ( ) is transferred free of charge to the RSPB or such other charity as may approved in writing by the County Council.

   (b) a commuted sum in the sum of (£) has been paid in full to RSPB or such other body as agreed under paragraph 1 (a) above. The commuted sum will be Indexed Linked from the date of this Agreement to the date of payment. The Index to be then Retail Price Index.

   (c) until a scheme for the creation and maintenance of the New Reed Bed Habitat has been approved by the RSPB and Natural England and their written approval to the scheme has been received by the County Council together with a copy of the scheme.

   (d) until a scheme for the creation and long - term maintenance of the newly formed habitat on land shown outlined in ( ) on plan ( ) adjoining the application site and being the site of the former landfill site has been submitted to and approved by the County Council.

   (e) until a strategy has been submitted to and approved by the County Council which sets out the mechanism to maximise the use of locally employed personnel at the site.

2. The applicant to pay all the County Council's legal and professional costs including those already incurred by the Head of Planning Applications Group prior to the completion of the Agreement.

Appendix 3

KEMSLEY SUSTAINABLE ENERGY PLANT CONSERVATION OF HABITATS AND SPECIES REGULATIONS ASSESSMENT

This is a record of the Appropriate Assessment, required by Regulation 61 of the Habitats Regulations 1994 undertaken by Kent County Council in respect of the elements of the proposed Kemsley Sustainable Energy Plant , for which the Competent Authority, in accordance with the Habitats Directive (Council Directive 92/43 EEC).

Having considered that the plan or project would have a '' likely significant effect'' (stage 1) on the Swale Special Protection Area and Ramsar Site and that the scheme was not directly connected with or necessary to the management of the site, an Appropriate Assessment (stage 2) has been undertaken of the implications of the proposal in view of the site's conservation objectives.

Natural England was consulted under the provisions of Article 10 of the Town and Country Planning (General Development Procedure Order) 1985, Section 28 of the Wildlife and Countryside Act 1981 (as amended) and Regulation 61 of the Conservation of Habitats and Species Regulations 2010 (Habitats Regulations) on 25 October 2010 and their comments to which the County Council has had regard, are attached. The conclusions of this Appropriate Assessment are in accordance with the advice and recommendations on Natural England.

Title: Development of a Sustainable Energy Plant to serve Kemsley Paper Mill

Location: Land to the North East of Kemsley Paper Mill, Kemsley, Sittingbourne, Kent.

Designations: The proposal is adjacent to the Swale Site of Special Scientific Interest , Special Protection Area and Wetland of International Importance under the Ramsar Convention (Ramsar Site). Additionally it lies close to The Medway Estuary and Marshes SSSI, SPA and Ramsar Site.

Description of the Project: The purpose of the proposed development is to develop a Sustainable Energy Plant to serve Kemsley Paper Mill as a means of meeting it's future energy needs and to supplement and reduce the Mill's reliance on Fossil Fuels.

The proposed development comprises Waste Fuel Reception, Moving Grate Technology, Power Generation and Export Facility, Air Cooled Condensers, Transformer, Bottom Ash Handling Facility, Office Accommodation, Vehhicle Parking, Landscaping Drainage and Access. The Waste Fuel would comprise Solid

Recovered Fuel Waste, Commercial and Industrial Waste and pre-treated Municipal Solid Waste.

A more detailed description of the each element of the development can be found in the Environmental Statement accompanying the application. The scheme is not directly connected with or necessary to the management of the SAC and Ramsar Site. However, the development has been carefully designed to minimise its effects on the features for which the European site has been designated. The Environmental Statement concludes that the scheme accords with government guidance and strategic and local planning policies.

Brief description of the European Site to which this Appropriate Assessment applies:

The boundary of the Swale SPA/Ramsar site lies some 150m to the east of the area covered by the proposal.

The Swale separates the Isle of Sheppey from Kent mainland. To the west it adjoins the Medway Estuary, to the east the outer Thames Estuary . It consists of a complex of grazing marsh with ditches , intertidal saltmarshes and mud-flats. The grazing marsh is the most extensive in Kent and there is much diversity both in the salinity of the dykes (which range from fresh to strongly brackish) and in the topography of the fields.

The Swale Ramsar was designated in 1993. In addition to qualifying under criterion 3a by virtue of regularly supporting over 20,000 waterfowl, with an average of peak count of 57,000 birds for the five winter period 1986/1987 to 1990/1991, and under criterion 3c by supporting, in winter, internationally important populations of four species of migratory waterfowl, the Swale also qualifies under criterion 2a of the Ramsar Convention by supporting a number of species of rare plants and invertebrates.

The intertidal flats are extensive, especially in the east of the site, and support a dense invertebrate fauna. These invertebrates, together with beds of algae and Eelgrass *Zostera spp.,* are important food sources for water birds. Locally there are large Mussels *Mytilus edulis* beds formed on harder areas of substrate. The wide diversity of coastal habitats combine to support important numbers of waterbirds throughout the year.

The diverse mix of habitats within the Swale support internationally important populations of waterbirds. It supports outstanding numbers of waterfowl with some species regularly occurring in nationally or internationally important numbers. The Swale SPA was classified in 1985 and extended in 1993. The qualifying bird interest features in the SPA Citation, SPA Review and Ramsar citation, SPA Review and Ramsar citation, together with the criteria used for this assessment) in line with Natural England advice this is whichever provides the strongest protection).

During severe winter weather elsewhere , the Swale can assume even greater national and international importance as a cold weather refuge. Wildfowl and waders from

many areas arrive, attracted by the relatively mild climate, compared with continental European areas, and the abundant food sources available.

Conclusions

The assessment has concluded that the development proposed , both alone and in combination with other proposed or planning projects in the locality, has the potential to adversely effect the integrity of the site. However, appropriate avoidance and mitigation measures have been incorporated into the design of the proposed Sustainable Energy Plant proposal to be able to draw a conclusion of no adverse effect on all of the qualifying features of the Natura 2000 and Ramsar sites under consideration.

The in-combination effects would be the cumulative effect of development on SPA/Ramsar species due either to direct impacts on the SPA/Ramsar (lighting, noise, access) or loss of the habitat outside the designation but used by SPA/Ramsar species. Mitigation measures in the form of design, retention and enhancement of existing habitats are proposed to offset these impacts for all the developments that have been assessed. For those plans and projects where impacts are unknown at this time, best practice would be followed to reduce and mitigate impacts so that overall the in-combination effects would be negligible.

However, based on the wide array of where the developments are geographically and within the planning process ; and the face that it is umlikely that they would occur at the same time, impacts on both SPA/Ramsar sites are considered negligible.

The final conclusion is that the planning application will have no adverse effects on the integrity of the following sites:

- The Swale SPA and Ramsar
- Medway Estuary and Marshes SPA and Ramsar
- Thames Estuary and Marshes SPA and Ramsar
- Outer Thames Estuary pSPA

Signed: **Date:**