

BDR WASTE PFI BDR MANAGER ANNUAL UPDATE REPORT

APRIL 2014 – MARCH 2015

1.0 Governance

In May 2014 the Rotherham representative on the Joint Waste Board, Richard Russell was not elected. In December 2014 Cllr Mahroof Hussain, RMBC, was formally appointed as Rotherham's representative and Vice Chair to the Joint Waste Board.

Cllr Hussain resigned from RMBC early 2015.

Councillor Roy Miller, the Chair of the Joint Waste Board, formally thanked Richard Russell for his work on the BDR PFI Project over the years.

2.0 Project Delivery

2.1 Bolton Road

Item	Percentage Complete	Target Completion Date	Actual Completion Date	Comments
Discharge of planning conditions	95%	1/7/2015		Outstanding conditions: <ul style="list-style-type: none"> • Biodiversity • Flood management plan • Traffic management plan The above have now all been submitted to RMBC planners, who have verbally accepted them. Shanks awaiting formal sign off
Permit progress	100%	1/7/2012	1/10/12	All 4 pre-operational permit conditions have been signed off
Fire Strategy completed	95%	24/2/2015	24/2/2015	The Fire Strategy has undergone a complete review following incidents at Ferrybridge and Frog Island. Fire Service/RMBC Emergency planners have attended site and have been consulted regarding requirements in case of emergency

Item	Percentage Complete	Target Completion Date	Actual Completion Date	Comments
Power on to permanent works	100%	26/8/2014		Final G59 connection completed
Buildings complete excluding planting	100%	29/9/2014	23/6/2014	All external works complete. Workshop build and fit out complete. Visitors' centre build and fit out complete, handover on 23/06/14
Roads and weighbridge complete	100%	01/10/2014	01/09/2014	Weighbridges installed and roads complete. Handover completed 01/09/14
Intelligent Transfer Station (ITS) Construction	100%	7/4/2015	24/2/2015	All external works completed
ITS Commissioning	98%	24/2/2015		All six waste handling cranes and grabs installed, cold commissioning commenced. Refinement progressing well on mechanical and electrical installation they are now 100% complete, Both bio drying halls suspended concrete floors, 100% complete. Fast acting doors to reception pits and shredder pits now commissioned
ITS Acceptance Tests	10%	20/5/2015		Acceptance testing commenced 18/4/2015
Anaerobic Digestion (AD) Commissioning	70%	11/11/2014		Readiness certificate issued by IC. Vets signed off of Hazard Analysis and Critical Control Point (HACCP) plan and hot commissioning on AD commenced

Item	Percentage Complete	Target Completion Date	Actual Completion Date	Comments
FITs application	50%	The target date for this to have the maximum benefit for the term of the Contract is 1/7/2015		FiTS application underway. BDR manager has raised with Contract Director that BDR need to have sight of the application
Animal By-Products Regulations (ABPR) Compliance	100%	12/5/2015	22/06/2015	Sign off now complete.
AD Acceptance Tests	50%	16/6/2015		Due to commence May 2015
Progress towards Service Commencement	98%	1/7/2015		Balfour Beatty have now left site Both A2A (formerly Ecodeco) and Jones Celtic Bio Energy (JCBE) now established with progress on mechanical and equipment fit out.
Recruitment	95%			Staff turnover has resulted in vacancies for some office staff.

2.2 Ferrybridge

Item	Percentage Complete	Target Completion Date	Actual Completion Date	Comments
Enabling works Ferrybridge	95%	17/12/2012		Cricket pavilion completed, new car parking area completed, work on access underway. Outstanding work on tank but this will not affect the main works commencing
Main Works Hot Commissioning	50%	12/10/2014	29/3/2015	This date has slipped into March 2015 at last update. This date has no implications for BDR as SRF will not be available until early March 2015
Operational Testing	0%	5/4/2015		
Facility Operational	0%	5/4/2015		

2.3 Grange Lane

Surveys have been carried out on the Grange Lane transfer station prior to handover from FCC to Shanks Waste Management. Work on the transfer of the Environmental Permit, leases and staff is well underway and it is anticipated all will be completed by 1 July 2015.

3.0 Technical

3.1 Bolton Road

The construction work is now complete and Balfour Beatty are carrying out snagging and defect resolution of the various buildings and infrastructure.

3.1.1 A2A (formally Ecodeco)

The Mechanical Biological Treatment plant at Bolton Road underwent readiness tests to ensure the facility was fit to accept waste on the 24 February 2015. Part of the testing regime was a fire system test which was witnessed by the construction insurance company on the 25 February 2015.

The Contractor issued a notice requiring first waste on the 26 February 2015.

There have been some processing issues in the refinement section of the plant and as a result waste was diverted from the facility to contingency points to allow for some reconfiguring of the refinement section. Work is continuing on the refinement section to improve the quality of the dry recyclates.

3.1.2 Jones Celtic Bio Energy (JCBE) (Dry AD plant)

Work on the dry AD plant progressed to plan; the following works have been completed:

- Installation of fermenter doors, pipe work and gas analysers and all internal construction works to fermenters, reception hall, ASP and In Vessel Composting (IVS) areas now complete
- Training of workforce commenced w/c 23/09/14
- All fermenters filled before Christmas, with first changeover on 12/01/15
- Installation and dry commissioning of the combined heat and power (CHP) engine
- Bio filter construction complete, fill of LECA complete, and tented cover now installed
- Extraction ductwork equipment and associated pipework and cleaning equipment now commissioned.
- Standby boiler commissioned and commenced heat cycle of fermenter under floor and wall heating by slowly raising the temperature

- Commissioning commenced November 2014
- Readiness certificate issued by Independent Certifier (IC).
- Vets signed off HACCP plan
- 2G 0.5MW generator commissioned, G59 relay work for allowing the engine to run and supply power to the ITS.

The Environment Agency (EA) and Shanks have discussed the bunding requirement for the percolate tank. An assessment was made using Best Available Techniques (as described in BAT conclusions under Directive 2010/75/EU of the European Parliament) for the waste storage requirements. Since the percolate tank is constructed as an integral part of the AD building and cannot be bunded, a thicker membrane is to be used around the tank.

The public right of way at Bolton Road reopened 23 December 2014.

The format of the Contractor's monthly report has changed from the construction to the commissioning phase and the Contractor now reports on:

- Health and Safety Figures
- Acceptance testing plans – programmes, protocols, independent Certifier
- tracker
- Fire Strategy
- Quality & Environmental Management Systems
- Summary of Site Deliveries
- Monthly Breakdown of Deliveries – including percolate, bio filter materials
- Diversion target by Council
- Non-conforming Waste Report

3.1.3 Recruitment

Shanks carried out a recruitment process for a range of specialist roles and information on the vacancies was circulated via local and national jobs networks, local community groups, including Job Centre Plus and its universal job-match system.

The roles were also advertised in all regional and specialist media and widely publicised achieving a good level of positive media coverage.

A recruitment event also took place on 17 September 2014 at Wath Library for general roles at the new facility, where Individuals were invited to come and learn more about the project and type of roles available. The event had an excellent turn out with more than 800 people attending. Shanks HR team collated the information from the recruitment event applications and successful applicants were invited to interview.

The early recruitment was necessary to ensure the successful applicants had both adequate time for their training and an appropriate depth of understanding prior to taking over the operation of the plant.

3.2 Ferrybridge

3.2.1 Progress on Site

The boilers first pressure test took place early July 2014, much earlier than previously predicted.

First waste was commissioned on 12 March 2015 and the first fire took place w/c 16 March 2015. Full service commencement date is now anticipated to be August 2015.

3.2.2 Ferrybridge 2

Multifuel Energy Ltd is seeking permission to build a second Multifuel Power Station (known as FM2) on the Ferrybridge site. The Planning Application was submitted July 2014, accepted examination by Planning Inspectorate (PINS) in August 2014, and now enters the pre examination phase.

3.3 Grange Lane

Surveys have been carried out on the Grange Lane transfer station prior to handover from FCC to Shanks Waste Management. Work on the transfer of the Environmental Permit, leases and staff is well underway and it is anticipated all will be completed by 1st July 2015.

Planning permission for a temporary traveller site adjacent to Grange Lane has been granted by BMBC. Barnsley have provided Shanks with their service requirements at Grange Lane.

3.4 Health and Safety

Incident Type	Brief Description	Investigation ongoing/complete	Report Issued (Yes/No)
RIDDOR	Fractured foot (at site of previous injury)	Complete	Yes
RIDDOR	Concussion	Complete	Yes
Minor	Dust in eye	Complete	n/a
Minor	Pedestrian fence blew over in wind, striking electrician on the leg, no injury.	Complete	n/a
Minor	Cut to finger while	Complete	n/a

	dressing HDPE lining		
Minor	Steel erector hurt thumb whilst recovering a vehicle stuck in soft ground	Complete	n/a
Incident	Operative stepped into gully, no injury sustained.	Complete	n/a

The Emergency Planning team have been liaising with the Contractor on their emergency procedures and attended the site visit by Green Watch.

3.5 Incidents

During latter part of 2014, there were three incidents worthy of note:

1. A fire at Ferrybridge power station, which delayed the build of the new facility that BDR will be using by only half a day. The fire was in the current generating part of the facility and we await the feedback from SSE on the cause.
2. A fire at Shanks East London Waste Authority MBT facility occurred in late August. Shanks are still investigating the root cause of the fire and it is still too early to speculate. Emergency plans worked well with no injuries to personnel being sustained. A press release can be found at <http://www.shanksplc.com/news-room/news-releases/2014/07-08-2014.aspx>. Shanks are continuing to support its local authority clients via internal and external contingency arrangements at its local MBT facility at Jenkins lane in east London.
3. A fire at the Hespin Wood site in Cumbria during the early hours of Friday 7th November 2014. There were no injuries and the service provision recommenced on Monday 10th November 2014. Shanks will provide further details once the cause of the fire has been determined.

The Fire Strategy at BDR was reviewed and improvements were made following lessons learned at ELWA.

4.0 Legal

A redacted version of the Project Agreement has been uploaded onto the BDR website.

5.0 Financial

The Operational Management costs for 2014/15 were within budget.

The Operational Management budget forecast for 2015/16 is now in place and has been agreed to remain the same as 2014/15. This assumes no Change in Law is applicable for the facility.

The Joint Waste Team is currently working on systems to ensure the apportionment of costs during the operational phase is in line with the requirements of the Inter Authority Agreement (IAA2).

6.0 Communications

The Communication team prepared a report for consideration by Steering Committee in February 2014 on how to raise the project profile.

BDR Manager and Shanks Contracts Director were speakers at the Minerals Engineering Society (MES) in May 2014. The presentation was well received and the Members of the Society would like to have a site visit and receive a technical paper on the anaerobic digestion plant.

Magna (Science and Adventure Centre) secured a grant from the Royal Academy of Engineering 'Ingenious Scheme' and issued a press release May 2014 which secured a good range of positive local regional and specialist media coverage. Workshops have taken place with Shanks and Magna and they are currently working up the project design ideas and looking to engage engineers.

The official launch of the "It's a Rubbish Adventure", the joint project with Magna Science Adventure Centre, took place on 29 October 2014 at Magna. Children saw the processes involved in moving, sorting, re-using and recycling waste in a hands-on experience of special equipment, including a conveyor belt.

BDR submitted a bid to WRAP for funding for a communication campaign to maintain or increase recycling and tie into the community liaison work undertaken by the Shanks Community Education Liaison Officer (CELO).

WRAP confirmed funding of £60K to prepare a communication plan to increase recycling. The BDR Team have been working with Shanks to deliver the outputs of the plan, which include:-

- Production and delivery of leaflets
- Production of new vehicle livery
- Recruitment of recycling advocates
- Production of material for social media to encourage recycling from every room

Members across Barnsley, Doncaster and Rotherham Council visited the Bolton Road site for a first-hand look at the facility on 19 January 2015. The visit commenced with a short presentation and then a minibus tour of the site. Balfour Beatty supplied Barnsley beekeeping group with some excess building materials.

7.0 Resources

The BDR Joint Waste Team was reviewed to ensure it was appropriate for the operational phase.

8.0 Other

A Compositional Analysis was completed to determine the composition of the waste in the black bins of the BDR area. The results will be used to formulate the educational awareness activities of the Community Education and Liaison Officer.

Doncaster Council's planning committee approved plans for a new Waste Transfer Station (WTS) on the Kirk Sandal Industrial Estate. This has now been signed off, construction commenced w/c 9 February 2015 and is on schedule.

The WTS will reduce the need for a large number of refuse collection vehicles and their crews repeatedly having to travel to and from Manvers to dispose of waste.

The design and operation of the proposed WTS has been carefully considered to minimise the impact of the facility on neighbouring communities and will help to mitigate transport movements from Doncaster to the PFI Facility. The Community Liaison Group has welcomed this, as it will reduce the pressure on the main routes from Doncaster to the Bolton Road Facility.

Open4business Trans Pennine held events to increase the uptake on the Portal in June and September 2014. This portal advertises opportunities for businesses to contract with Scottish and Southern Electric.

9.0 Glossary of Terms

Term	Definition
3SE	The name for the partnership between Shanks Group plc and Scottish & Southern Energy plc.
A2A (formerly Ecodeco)	Italian company who research, design, construct, and manage plant and equipment for the disposal of waste.
Animal By Product Regulations (ABPR)	Defined in article 3 of EU Regulation (EC) No 1069/2009 laying down health rules as regards animal by-products and derived products not intended for human consumption.
Anaerobic Digestion (AD)	A series of biological processes in which micro-organisms break down biodegradable material in the absence of oxygen. One of the end products is biogas, which is combusted to generate electricity and heat.
Annual General Meeting (AGM)	A meeting that official bodies, and associations involving the general public hold on an annual basis.
Construction Design and Management Regulations 2007 (CDM Regs)	These regulations place legal duties on virtually everyone involved in construction work.
Combined Heat and Power (CHP)	Is the simultaneous production of heat and electricity from a single source.
Community Liaison Group (CLG)	This is group of 15 of residents and ward councillors with an active interest in ensuring the facility at Bolton Road is properly managed.

9.0 Glossary of Terms

Department for Environment, Food and Rural Affairs (DEFRA)	The UK government department responsible for policy and regulations on environmental, food and rural issues.
Environment Agency (EA)	An executive non-departmental public Body responsible to the Secretary of State for Environment, Food and Rural Affairs for issues affecting the environment.
FCC Environment	One of the UK's leading waste and resource management companies.
Feed-in Tariff Scheme (FiTS)	A government programme designed to promote the uptake of a range of small-scale renewable and low-carbon electricity.
Hazard Analysis and Critical Control Point (HACCP)	A management system in which food safety is addressed through the analysis and control of biological, chemical, and physical hazards from raw material production, procurement and handling, to manufacturing, distribution and consumption of the finished product.
Independent Certifier (IC)	Provides the specialist service of checking the compliance of buildings and infrastructure projects against client requirements, detailed design and construction standards.
Inter Authority Agreement (IAA2)	The legal agreement between the three authorities that sets out how the contract will be governed.
Joint Waste Board (JWB)	The Statutory Committee comprising Portfolio Holders and Senior Officers with responsibility for waste.

9.0 Glossary of Terms

Joint Waste Team (JWT)	Core team consisting of the BDR Manager and BDR Project Administrator together with Technical, Legal and Finance Officers from Rotherham, Barnsley and Doncaster.
Jones Celtic Bio Energy (JCBE)	Provides a complete solution for the generation of renewable energy from biodegradable sources, such as municipal waste, food waste.
Lightweight expanded clay aggregate (LECA)	A medium for a bio film to grow on to remove odours from the AD.
Mechanical Biological Treatment (MBT)	A type of waste processing facility that combines a sorting facility with a form of biological treatment such as composting or anaerobic digestion.
Private Finance Initiative (PFI)	Mechanism for creating "public-private partnerships" (PPPs) by funding public infrastructure projects with private capital.
Solid Recovered Fuel (SRF)	A fuel produced by shredding and dehydrating solid waste (MSW) with a waste converter technology.
SSE plc (formerly Scottish and Southern Energy plc)	A British energy company headquartered in Perth, Scotland.
Shanks Waste Management (SWM)	The UK arm of Shanks Group plc, a leading international sustainable waste management business.
Transfer of Undertakings (Protection of Employment) Regulations (TUPE)	The movement of employees and any liabilities associated with them from the old employer to the new employer by operation of law.

9.0 Glossary of Terms

Waste Infrastructure Delivery Programme (WIDP)	The delivery unit in England to make available programme management resources to Defra.
Waste Transfer Station (WTS)	Facilities where municipal solid waste is unloaded from collection vehicles and briefly held while it is reloaded onto larger long-distance transport vehicles for shipment to landfills or other treatment or disposal facilities.

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