SALES AND RENTAL OF HEAT TREATMENT EQUIPMENT

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HOT TAP SPLIT TEE 14IN GASOLINE LINE APPLICATIONS

Customer:	Wood Group Engineering Ltd (North Sea)	
Client:	Shell UK	
Job Description:	To pre-heat a 14" split tee and the 14" pipe that it sits on (simultaneously) requiring two longitudinal welds and two circumferential welds.	
	Pipe Dimensions: Pre-heat Target Temp: Product: Flow Rate: Pressure: Product Temp:	355.6mm x 9.5mm w/thk 250°C for welding fillet joints 150°C for minimum interpass Gasoline 3,500 gallons per day 14 bar max 32°C
Job Location:	Shell Fife NLG Plant Mossmorran Kingdom of Fife	
Job Date:	06.03.04 to 12.03.04	
Equipment:	2 x 20kw RHS Induction Heating Machines 2 x 80ft Induction Heating Cables 2 x 50ft Induction Heating Extension Cables	
Results:	During the longitudinal welds, i.e. along the split part of the tee, we achieved the 250°C target pre- heat temperature but during the circumferential welds we were unable to raise the temperature above 95°C due to the pipe wall thickness and the product flow rate. The welding inspector monitored the temperature and was happy that the temperature that was reached was well within the parameters needed for welding.	
Comments:	Welders could not believe that they could rest their hands on cables whilst welding. The original plan was to have had comfort breaks for them on a regular basis if they had used propane. This eliminated the need for breaks and, as a result, they continued to weld out to completion once started, far quicker, which meant less time exposed in a high-risk area of the plant by personnel. The client was happy with the safety aspect and also less time and exposure to personnel on site and with the added benefit of control over temperatures giving improved auality.	







