



**ENVIRONMENT
AGENCY**

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

**AMG Resources Ltd.
Nevill's Dock,
Llanelli,
Carmarthenshire
SA15 2HD**

Variation Notice number
LP3639BS

Permit number
BM2381

BM2381/LP3639BS

Effective from 22nd December 2004

Introductory note

This introductory note does not form a part of the Variation Notice.

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a Permit issued under the Regulations to operate an installation.

The Notice comprises Schedule 1 containing conditions to be deleted, Schedule 2 conditions to be amended and Schedule 3 conditions to be added. The Notice is subject to the express conditions set out in Schedules 1 to 3.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the PPC Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Brief description of the installation regulated by this permit

The process involves the detinning of scrap tinplate by a chemical process and the recovery of the tin from the liquors used via an electrochemical operation.

Tinplate feedstock, either from scrap or returned used steel cans, is shredded and magnetically separated from non-ferrous material from which the aluminium content is later recovered. The ferrous material is then conveyed through a series of thirteen tanks fitted with screw conveyors where the chemical leaching of the tin is undertaken.

The first nine of these tanks contain a hot sodium hydroxide and sodium nitrite solution that progressively strips the tin from the steel. This process produces steam which carries most of the evolved ammonia and nitrogen out through roof vents.

The shredded tinplate and chemical solution flows counter currently resulting in stripped steel, which is then rinsed in the last four tanks and then baled ready for subsequent sale to a steelworks. The chemical solution, containing sodium stannate, is then filtered. This tin rich liquor then passes to the electrochemical stage where the tin is deposited on cathodes. These are then lifted out, washed, dried and then dipped in a bath of molten tin to melt off the plated tin. This tin is then either cast into ingots or recovered as a powder for sale.

Brief description of the changes introduced by this variation notice.

This variation makes the following amendments to PPC permit BM2381:

1. Limits are set for the release of surface water into the Burry Inlet and some monitoring requirements are removed.
2. An improvement condition (9.21) is added to require the Operator to assess the impact (if any) of seawater on the measurement of sodium and chloride in surface water releases from the site.
3. Dioxin measurement is removed from tin melt pot following successful completion of Improvement Condition 9.12.
4. Oxides of nitrogen monitoring is added to boiler stack (A3)
5. Removal of Condition 2.2.3 as the requirements of the condition are duplicated by the Energy usage form.
6. Removal of requirement to sample surface water release at low tide (Condition 6.3.3) as sampling has proven that there is no significant dilution effect of sample due to tidal influences.

Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
None		

Superseded Licenses/Consents/Authorisations relating to this installation

Holder	Reference Number	Date of Issue
None		

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

Status Log

Detail	Date	Comment
Application BM 2381	Received 28/12/01	Duly Made 28/12/01
1 st Schedule 4 Notice request for information	Request issued 08/03/02	Response received 19/04/02
Request by Agency to extend determination to 23/05/02	Request dated 25/04/02	Request accepted 07/05/02
Request by Agency to extend determination to 28/07/02	Request dated 24/05/02	Request accepted 11/06/02
2 nd Schedule 4 Notice request for information	Request issued 22/07/02	Response received 13/09/02
Request by Agency to extend determination to 15/11/02	Request dated 16/09/02	Request accepted 19/09/02
Request by Agency to extend determination to 17/01/03	Request dated 08/11/02	Request accepted 11/11/02
Request by Agency to extend determination to 04/04/03	Request dated 10/01/03	Request accepted 13/01/03
Request by Agency to extend determination to 14/05/03	Request dated 01/04/03	Request accepted 03/04/03
Request by Agency to extend determination to 14/07/03	Request dated 12/05/03	Request accepted 13/05/03
Request by Agency to extend determination to 14/10/03	Request dated 03/07/03	Request accepted 07/07/03
Request by Agency to extend determination to 14/11/03	Request dated 03/10/03	Request accepted 07/10/03
Permit BM2381	Determined 11/11/03	
Variation notice	Served 21/01/04	Agency Initiated – clarification of condition 3.1.6.
Variation notice	Served 22/12/04	Agency initiated and Operator requested – removal of conditions 2.2.3 and 6.3.3, removal of requirement to sample at low tide, introduction of limits for surface water releases and addition of improvement condition to assess the interference from sea-water contamination on analytical results obtained from surface water discharge.

End of introductory Note

BM2381/LP3639BS

Effective from 22nd December 2004

Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000



**ENVIRONMENT
AGENCY**

Variation Notice

Permit number (The Permit)
BM2381

Variation Notice number
LP3639BS

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the Permit issued on 11th November 2003 and held by you **AMG Resources Limited** ("the Operator"),

Of/ whose Registered Office is
**29 Lower Trinity Street,
Birmingham
B9 4AG**

Company registration number **1515585**

which relates to the operation of an Installation at
**Nevill's Dock,
Llanelli,
Carmarthenshire
SA15 2HD**

to the extent set out in Schedules 1 to 3 of this Variation Notice.

This Notice shall take effect from 22nd December 2004 at 00.01 hours.

Signed

A rectangular box containing a handwritten signature in cursive that reads "Barbara Tate".

B TATE

Authorised to sign on behalf of the Environment Agency

Date

A rectangular box containing the date "20th December 2004".

BM2381/LP3639BS

Effective from 22nd December 2004

SCHEDULE 1 - CONDITIONS TO BE DELETED

1. Condition 2.2.3 – “The Operator shall maintain a record of the frequency and duration of firing on gas oil including integrity testing. The record shall be forwarded to the Agency by 31st January of the following year” shall be deleted.
2. Condition 6.3.3 – “Surface water monitoring shall be carried out at or around low tide” shall be deleted.

SCHEDULE 2 - CONDITIONS TO BE AMENDED

1. Table 6.3.2 shall be amended to

Table 6.3.2 (Version 2) : Surface water (W1) sampling

Parameters	Frequency	Limit
Temperature °C	Monthly	35°C (max)
pH	Monthly	6 - 9
Conductivity at 20°C $\mu\text{S cm}^{-1}$	Monthly	Record
Biochemical Oxygen Demand (BOD) mg l^{-1}	Monthly	10
Suspended Solids mg l^{-1}	Monthly	50
Ammoniacal Nitrogen as N mg l^{-1}	Monthly	3
Nitrite as N mg l^{-1}	Monthly	1
Total Oxidised Nitrogen (TON) as N mg l^{-1}	Monthly	3
Aluminium and its compounds (as Al) mg l^{-1}	Monthly	1.5
Arsenic and its compounds (as As) mg l^{-1}	Monthly	0.1
Boron and its compounds (as B) mg l^{-1}	Monthly	0.5
Cadmium and its compounds (as Cd) mg l^{-1}	Monthly	0.1
Chloride (as Cl) mg l^{-1}	Monthly	RECORD
Copper and its compounds (as Cu) mg l^{-1}	Monthly	0.25
Iron and its compounds (as Fe) mg l^{-1}	Monthly	0.5
Mercury and its compounds (as Hg) mg l^{-1}	Monthly	0.075
Sodium and its compounds (as Na) mg l^{-1}	Monthly	RECORD
Tin and its compounds (as Sn) mg l^{-1}	Monthly	0.5
Zinc and its compounds (as Zn) mg l^{-1}	Monthly	0.5
Total hydrocarbon oil mg l^{-1}	Monthly	10

2. Table 6.1.3 shall be amended to:

Table 6.1.3: Emission limits into air

Parameters	Emission Point		
	A1	A2	A3
Particulate mg m⁻³			
Extractive sample (min 4 hour)	10	10	25
Frequency of monitoring	6-monthly	6-monthly	6-monthly
Minimum interval between extractive monitoring	4 months	4 months	4 months
Oxides of nitrogen mg m⁻³			
Extractive sample (min 4 hour)	-	-	200
Frequency of monitoring	-	-	6-monthly
Minimum interval between extractive monitoring	-	-	4 months
Copper, lead, zinc and their compounds taken together (as metal) mg m⁻³			
Extractive sample (min 4 hour)	-	2.0	-
Frequency of monitoring	-	6-monthly	-
Minimum interval between monitoring	-	4 months	-
Cadmium, arsenic, nickel and their compounds taken together (as elements) mg m⁻³			
Extractive sample (min 4 hour)	-	0.2	-
Frequency of monitoring	-	6-monthly	-
Minimum interval between monitoring	-	4 months	-
Tin and its compounds (as Sn) mg m⁻³			
Extractive sample (min 4 hour)	-	2.0	-
Frequency of monitoring	-	6-monthly	-
Minimum interval between monitoring	-	4 months	-

SCHEDULE 3 - CONDITIONS TO BE ADDED

1. The following Improvement Condition shall be added to Table 9.1.1 of Authorisation BM2381

Table 9.1.1 (Addition 1) : Improvement programme requirements

Reference	Requirement	Date
9.21	The Operator shall assess the interference (if any) of sea-water on the analytical results for chloride and sodium obtained from monthly sampling of surface water discharges from the site. A report detailing the assessment and the conclusions drawn shall be sent to the Agency at the Reporting Address. Where interference from seawater is detected the report shall include an action plan to eliminate or minimise as far as practicable this interference.	31 Mar 05

