

Sally Munk

From: SHUMAKER Annegret <Annegret.Shumaker@infrastructure.gov.au>
Sent: Monday, 22 February 2016 3:07 PM
To: SHUMAKER Annegret
Subject: FW: Energy from Waste facility - Blacktown [SEC=UNCLASSIFIED]
Attachments: Appendix F_Airspace Assessment.pdf; Appendix G_Plume Rise Assessment (2).pdf;
FW: SSD 6236 - Energy from Waste Facility - Blacktown Local Government Area -
Invitation to comment [SEC=UNCLASSIFIED]

From: HENRY, ANNA [mailto:ANNA.HENRY@casa.gov.au]
Sent: Thursday, 18 February 2016 3:15 PM
To: Shumaker Annegret
Cc: Downsborough Craig; Hain, Joe; Windebank, Matthew; Mathew, Dilip; Procs, PDS; INFO OAR
Subject: RE: Energy from Waste facility - Blacktown [SEC=UNCLASSIFIED]

UNCLASSIFIED

Dear Annie,

REF: OP16/58-2

Sorry for the delay with this assessment.

In reading through the report provided I discovered that the stack diameter originally used was different from that indicated in the report. I have assumed that the 1247 was in error and used 2.2m. Please let me know if this is not the case.

Using the CASA screening tool, the parameters used were:

No. of stacks 2
Stack separation 2m
(Note: the form advised "a few metres". In any case, the result was the same using any distance up to 6.4m.)
Stack diameter 2.2m
Stack height 100m
Temp 120 Deg C
Exit velocity 21.7m

The result was that the plumes reduce to the benchmark velocity of 4.3m/s at 437FT AGL (133.4m) or 110FT above the stack top (33.4m).

The report claimed that the most critical height with respect to the OLS would be that of the proposed Badgerys Creek aerodrome at approximately 223m if it falls within the outer horizontal surface. As the stack height is advised to be 100m adding the elevation of 64m and the plume height of 33.4m gives the result of 197.4m AHD which is below the anticipated height of the OLS.

Regarding the PANS OPS surfaces of relevant aerodromes the estimated results in the report supplied ranged from 335m to 522m which would not be impacted. However, these were not confirmed with Airservices although they previously advised that a height of 186.6m AHD did not impact the PANS OPS surfaces checked by them. No PANS OPS checks were able to be considered for the proposed Badgerys Creek aerodrome.

Nevertheless, the inner horizontal height estimated for the proposed Badgerys Creek aerodrome would appear to be the most limiting in this case.

The OAR therefore recommends that the plume rise from the facility is unlikely to present a hazard to airspace users unless the OLS at Badgerys Creek (when it becomes operational) is less than 197.4m AHD. In this case, depending on the extent of the penetration, a plume symbol inserted on the relevant aviation charts may be appropriate mitigation. However, the final decision regarding any OLS impact would rest with your Department. The proponent should therefore make contact with that aerodrome operator in due course to check on any OLS impact which may require further advice from CASA .

A copy of this assessment will be forwarded to Airservices procedure design for clarification.

Thank you for referring this proposal.

Kind Regards,

Anna

Anna Henry

Airspace Specialist
Office of Airspace Regulation
Airspace and Aerodrome Regulation Division
Civil Aviation Safety Authority

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E: anna.henry@casa.gov.au

From: Shumaker Annegret [<mailto:Annegret.Shumaker@infrastructure.gov.au>]

Sent: Wednesday, 17 February 2016 8:47 AM

To: HENRY, ANNA

Cc: Downsborough Craig

Subject: RE: Energy from Waste facility [SEC=UNCLASSIFIED]

Hi Anna

Thank you kindly; I look forward to touching base today some time.

Regards

Annie

Annie Shumaker

Aviation and Airports
Department of Infrastructure and
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From: HENRY, ANNA [<mailto:ANNA.HENRY@casa.gov.au>]

Sent: Tuesday, 16 February 2016 5:31 PM

To: Shumaker Annegret

Cc: Downsborough Craig

Subject: RE: Energy from Waste facility [SEC=UNCLASSIFIED]

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Hi Annie,

Sorry I haven't had a chance to get back to you. I will be in touch tomorrow.

Kind Regards,
Anna

Anna Henry

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