
CAP1616 Assessment Meeting
ACP -2023-008
ADLS Trial TMZ at Mark Hill Windfarm

29th March 2023

Assessment Meeting Agenda



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|---|---------|
| 1. Introduction | All |
| 2. Statement of Need (discussion and review) | All |
| 3. Issues or opportunities arising from proposed change | Sponsor |
| 4. Process requirements | CAA |
| • Trial Plan | |
| • Stakeholder engagement | |
| • Noise Impact Assessment | |
| • Safety Assessment | |
| 5. Provisional timescales | All |
| 6. Next steps | All |
| 7. AOB | All |

Introductions



CAA Introductions

ScottishPower Renewables Introduction

Cyrrus Introduction



Statement of Need



The purpose of this slide pack is to:

- Support the ACP, Stage 1, Define Assessment Meeting
- Outline the benefits a technology trial associated with windfarm lighting installations can bring

The slide pack should be read in conjunction with the statement of need at the link below:

[ACP-2023-008](#)

This briefing pack has been produced with reference to
CAP1616 (4th Edition) dated March 2021

Issues or Opportunities Arising from Proposed Change



The Sponsor has not identified any issues arising from the change

Opportunities:

- Demonstrate how an Aviation Detection Lighting System (ADLS) can be implemented in an environmentally sensitive area and still ensure aviation safety.
- Allow early engagement with stakeholders to discuss the use of the ADLS technology

Options to Exploit Opportunities 1



- Work with the CAA to assist with the validation of their draft guidance material on aviation lighting.
- Expose potential technology to other windfarm developers thereby informing future planning development requirements.
- Allow the aviation community to familiarise themselves with potential new lighting technology.
- Provide an environment for other technology suppliers to trial their systems.

Options to Exploit Opportunities 2



- Prove the concept of minimising the visual impact of aviation lighting in sensitive areas such as the dark skies park in south west Scotland.
- Demonstrate the wider benefits and application of EC mandated airspace to other users i.e. UAVs.
- Collect evidence in order to inform any future aviation lighting developments.

Process Requirements

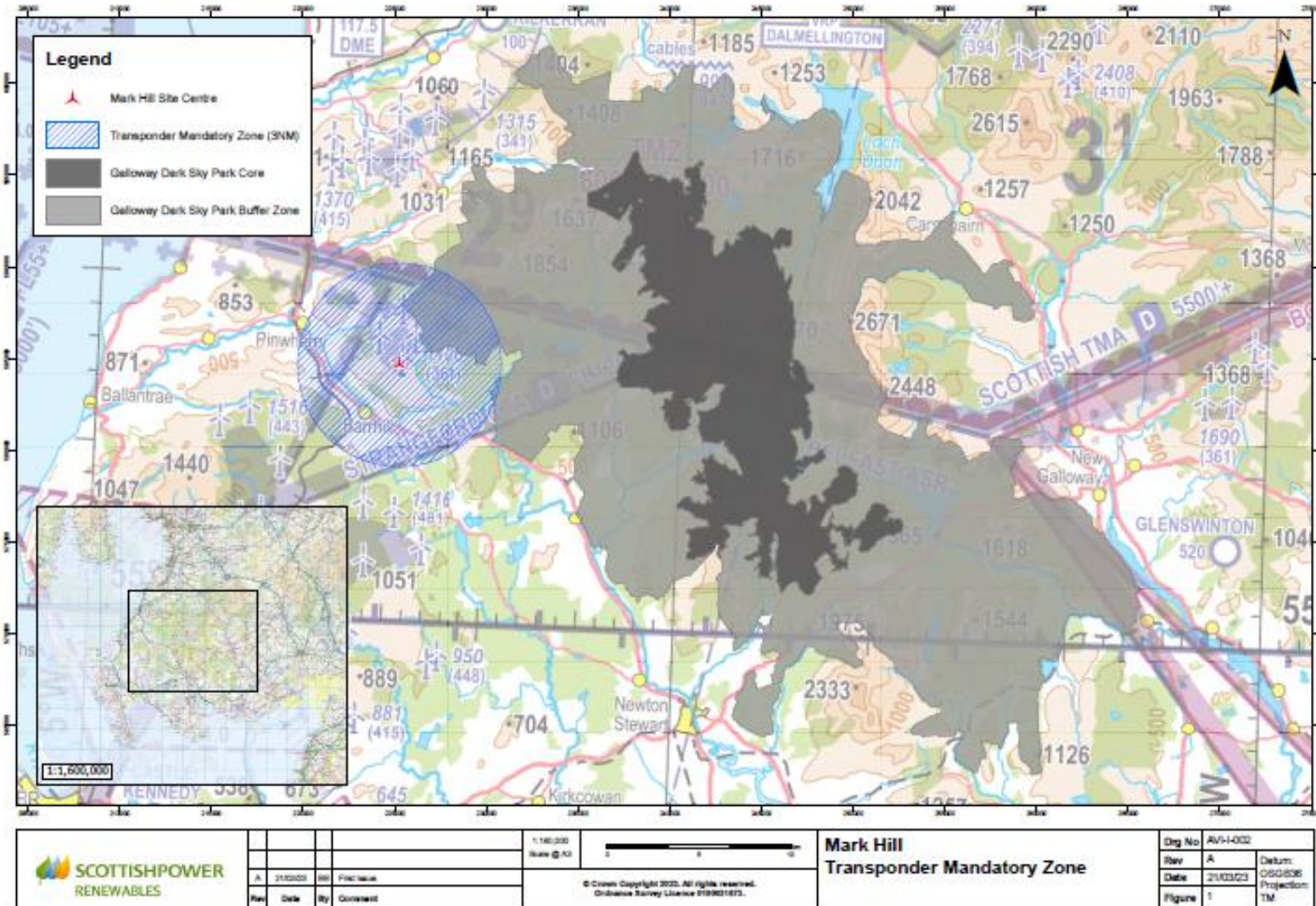


- Trial Plan
- Stakeholder Engagement
- Noise Impact Assessment
- Safety Assessment

- What the trial involves.
- What the trial is aiming to investigate, prove and validate.
- What data outcomes we need in order to prove, or otherwise, that the trial has been a success.



Location of Trial



- Early, informal, engagement with relevant stakeholders, face to face wherever possible.
- Formal stakeholder engagement.
- Frequent updates to stakeholders – frequency tbd.
- Stakeholders identified so far include:
 - Government departments
 - Aviation stakeholders, incl Emergency services
 - CAA
 - MOD

Noise Impact Assessment



We believe that there will be no additional noise impact as the trial will not affect traffic distribution.

A qualitative statement will be provided.

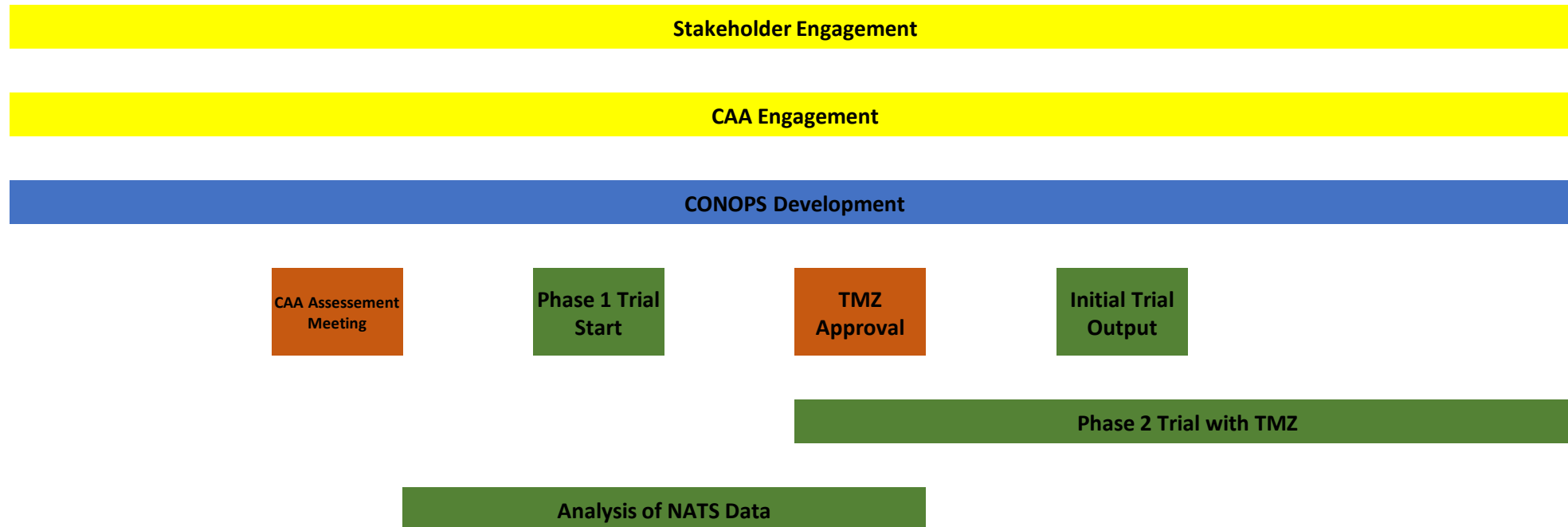
- A HAZID session will be held involving some of the aviation stakeholders.
- Safety plan will also be developed.

Provisional Timescales (1)



- Commence trial – as soon as approved and supplier contracted (late Q3 2023).
- Review data – we are in discussion with NATS for additional radar data for validation purposes (Q3 2023).
- Initial output of the trial data expected Q4 2023.
- Trial to run for 6 months.

Provisional Timescales 2



Assessment Meeting



AOB

Next Steps