# Department of Ecology Unmanned Aerial Systems (UAS)
# Project Description and Checklist

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| **Ecology Program** | Administrative Services ( Facilities ) | |
| **Project Title** | Building Condition Survey | |
| **Ecology Project Manager** | James Brown | Phone: 360-789-4299 |
| **Ecology Unit Supervisor** | Paul McKnight | Phone: 360-706-3167 |
| **Ecology Section Manager** | Fran Huntington | Phone: 360-790-5728 |
| **Ecology Program Manager** | Jim Pendowski | Phone: 360407-6829 |
| **Type of UAS operation (select one)** | ☒ Ecology owned and operated ☐ Contracted ☐ Volunteer (not an Ecology employee) | |
| **UAS Pilot(s) in Command (if known)** | James Brown<br>FAA Remote Pilot Certified: ☒ Yes ☐ No*<br>Ecology Certified: ☒ Yes ☐ No*<br>**if No, certification by both FAA and Ecology is **required** prior to approval of project* | Phone: 360-789-4299 |
| **Reason for using UAS** | Condition reports of Ecology facilities, is a necessary part of maintaining our properties. Use of a drone for building inspections allows for safe and efficient evaluation of building systems while minimizing risks associated with staff working on roofs and other dangerous building structures. | |
| **Project Location** | Padilla Bay Reserve, Mt Vernon WA<br>Bellingham Field Office, Bellingham WA<br>NWRO, Shoreline WA<br>Headquarters, Lacey WA<br>Vancouver Field Office, Vancouver WA<br>ERO, Spokane WA<br>CRO, Union Gap<br>RFO, Richland WA<br>Zosel Dam, Oroville WA | |
| **Project Description/Purpose** | Inspect and document current condition of building exterior systems, as part of the maintenance and repair process. Currently, facilities is limited in its ability to assess our building systems due to issues with safe access. Implimentation of a drone based inspection plan will allow the facilities dept to more closely manage maintenance, resulting in better management strategies. | |
| **Scheduled Dates of Project** | Start Date: 5/1/2023<br>End Date: 4/30/2024 | |
| **Does airspace require additional authorization by** | ☒ Yes ☐ No Airspace authorization is available through the ECY approved "Aloft" APP for all sites with the exception of BFO which requires approval directly with the FAA. | |

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| **FAA or Air Traffic Control (ATC)?** | | |
| **Will UAS be used regularly during project?** | ☒ Yes ☐ No | |
| **Type of data to be collected** | ☐ Environmental monitoring<br>☒ Mapping/Orthomosaic<br>☒ Site Photos<br>☒ Temperature/Thermal imaging | ☒ Structure-from-motion (SfM)<br>☒ Photography/Videography<br>☐ Lidar<br>Other *Enter here* |

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| ☒ Yes<br>☐ N/A | If applicable, Ecology has approved a Quality Assurance Project Plan (QAPP) for monitoring projects that include data collection with a UAS |

## Project Checklist

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| ☒ | Pilot in command (PIC) has FAA Part 107 certification, and the training necessary to operate the UAS used in this project |
| ☒ Yes<br>☐ N/A | Proper notification and permissions from air traffic control (ATC) were received if UAS flight will occur in airspace class B, C, D, or E airspace. |
| ☒ | PIC has reviewed and understands the Department of Ecology UAS Policy 22-06 (applies to Ecology employees only). |
| ☒ | PIC has provided the Project Manager with a copy of the UAS Standard Operating Procedure (SOP). |
| ☒ | PIC has read The National Telecommunications and Information Administration's (NTIA) document "Voluntary Best Practices for UAS Privacy, Transparency, and Accountability" |

## Signatures

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| **Ecology UAS Coordinator:** | Date 4/12/23 |
| **Ecology Project Manager:** James Brown | Date 4/6/2023 |
| **Ecology Supervisor or Manager:** Paul WE McKnight | Date 4/6/2023 |
| **Ecology Program Manager:** James J Pendowski | Date 4/11/2023 |
| **Ecology Deputy Directory:** | Date 4/14/2023 |

NOTE: Proper documentation of project and UAS use must be included on Ecology's Drones - Washington State Department of Ecology website after approval of this checklist and project according to Ecology's UAS Policy 22-06

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