**APPENDIX C**

**GREENHOUSES & GROWTH CHAMBERS**

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| This document is an Appendix to the Organic System Plan – Producer (Doc # 5.2.1) describing the management of crops grown in containers, greenhouses or growth chambers. This is also applicable to operations producing sprouts, shoots and microgreens. |

1. **GREENHOUSE INFORMATION** [NSC .310, 4; NOP 205.401(b)]

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Applicant (Legal Entity)1:** | |  | | | | **Reg. No.** |  | | **Year:** |  |   1 Legal entities may include Sole Proprietors, Partnership (Marital or Legal), or Corporations. The Applicant must be the same as listed on your Application for Certification.  **1.1 Nature of Greenhouse Production**  Generally describe the nature of the organic (and conventional) greenhouse activities on your operation. |
| * 1. **Greenhouse Description**   Describe the materials used in constructing the greenhouse (ie. glass, polyethylene, rough cut lumber, etc.). |
| What is the size of the greenhouse?       (ft2)  What is the photosynthetic area of the production unit [COR Only]?       (ft2)  **Note:** Photosynthetic area is the ground or floor area devoted to production including walkways and spaces between plants, but excluding header aisles, field access, service ways, storage areas, hedgerows and turn-around areas.  Please **attach** a diagram of the greenhouse(s). The diagram should include all production and service areas as well as indicate any unique production zones within the greenhouse. |
| Indicate the nature of the production system:  Permanent Soil System (In-ground)  Temporary Soil System (Container)  Other: |
| **Note:** Production Unit History for Permanent In-ground Soil Systems must be included on **Table 4.1 Field Management History** in the Organic System Plan - Producer.  List any equipment used in the greenhouse: |

**2.0 PARALLEL PRODUCTION** [NSC .310, 3, 5.1.5; NOP 205.201(a)(5)]

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| Is **all** produce grown in the greenhouse produced to meet organic standards?   Yes  No  If **NO**, describe the non-organic aspects of the operation and plans for conversion of the same. |
| What provisions have been made to separate organic and non-organic products in the greenhouse? |

**3.0 GROWING CONDITIONS** [NSC .310, 7.4,7.5; NOP 205.203-.206]

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| * 1. **Growth Media – Container Systems**   Are sprouts, shoots or microgreens produced in a water based medium [COR ONLY]?  Yes  No  Indicate the nature of the containers used:  Stainless Steel  Food Grade Plastic  Burlap  Fibre  Coconut Coir  Other (describe): | | | | |
| **Note**: If using plant based materials for containers, please attach confirmation the product is untreated.  Is the growth media:  Commercial Soil Mix  Blended on Site  Other (describe): | | | | |
| List the components and ratios used in preparation of on-site soil blends:  N/A | | | | |
|  | **Component** |  | **Soil Blend Content (%)** |  |
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| **COR Only Note:** Soils used in container systems must contain a mineral fraction (sand, silt, or clay) consisting of at least 2% by weight or volume. Additionally, at least 10% of the volume must be compost.  All commercial soil mixes, or ingredients used in on-farm preparation of soil mixes must be included on the  **Input Substance Summary** (Doc #8.1.1).  Describe how you reuse or recycle growth media: | | | | |
| * 1. **Containerized, Staked Crop Production (COR Only)**  N/A   **Note:** Containerized, Staked Crop Production includes indeterminate varieties grown in greenhouses for periods of 7 months or more and are supported by a trellis system (eg. stakes, strings, wires).  Indicate the soil volume based on the total growing area:       L/m2  Describe how soil volume is maintained proportional to overall plant size, growth rate, targeted yield, and length of crop cycle? | | | | |
| What is the frequency of compost addition through the growth cycle? | | | | |
| * 1. **Irrigation**   What is the source of the water used in the greenhouse? | | | | |
| What is the frequency of quality analysis? | | | | |
| Testing Laboratory: | | | | |
| Attach **copies** of the most recent reports. | | | | |
| Describe the irrigation procedures: | | | | |
| Describe the equipment used, including pressure systems, surge tanks, etc.: | | | | |
| Describe soil moisture monitoring programs: | | | | |
| * 1. **Sanitation**   All sanitation agents used in the greenhouse must be listed on the **Input Substance Summary** (Doc #8.1.1). Substances used in organic production must be approved by Pro-Cert prior to use.  Describe equipment cleaning procedures and the products used: | | | | |

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| * 1. **Environmental Conditions**   What is the source of heat? |
| Where is it vented? |
| Is artificial light used?  Yes  No.  If **Yes**, describe the light source: |
| Are carbon dioxide (CO2) levels artificially enriched in the greenhouse?  Yes  No.  If **Yes**, describe the method of enrichment: |

1. **PEST MANAGEMENT** [NSC .310, 7.5; NOP 205.206]

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| All pest control substances must be listed on the **Input Substance Summary** (Doc #8.1.1). Substances used in organic production must be approved by Pro-Cert prior to use.  Problem Insects: |
| Describe your pest monitoring program: |
| Describe your pest control program: |
| Where are pest control products stored? |

1. **DISEASE MANAGEMENT** [NSC .310, 7.5; NOP 205.206]

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| All disease control substances must be listed on the **Input Substance Summary** (Doc #8.1.1). Substances used in organic production must be approved by Pro-Cert prior to use.  Problem Diseases: |
| Describe the disease monitoring program: |
| Describe the disease control program: |
| Where are the disease control products stored? |

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| **Table 4.1(d) Field Management History – Current Plans - Greenhouse** |

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| **This table is to be completed for containerized greenhouses and growth chambers (organic, transitional and conventional) managed by the applicant**. Greenhouses with permanent soil systems or in ground production shall use Table 4.1 of the Organic System Plan. For each greenhouse, indicate in the space provided: (a) the crop grown or to be grown; (b) the fertilizer used or to be used; (c) the pesticide used or to be used; (d) other substances used or to be used. If production is managed by plot or zone, production should be recorded below by plot or zone. Include additional pages as necessary. You may make photocopies of this form for additional use or you may download this form in an Excel spreadsheet from [www.pro-cert.org](http://www.pro-cert.org) Alternatively, this record may be completed online in the [myPro-Cert](https://www.pro-cert.org/myprocert/) portal under the Self Assessments tab. |

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| Greenhouse | Plot/ Zone No. | Growing Area (ft2) | Organic Status | Crops (Variety) | Fertilizers | Pesticides | Other |
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