**ITEM # 14 – SILVICULTURE**

| 1. **-** Check the Silvicultural methods or treatments allowed by the Forest Practice Rules to be applied under this NTMP.
* If more than one method or treatment will be used identify the boundaries on a map per 14 CCR §1034(x)(2)
* List the approximate acreage for each method identified.
 |
| --- |

| **a.** | **Un-evenaged** | **ACRES** | **UNEVENAGED REGENERATION METHODS****(14 CCR § 913.2 [933.2, 953.2]) (All Districts)****NOTE: variation by District in (a)(2)(A)(1)** |
| --- | --- | --- | --- |
| [[ ] ] | Selection |  |
| [[ ] ] | Group Selection |  |
| [[ ] ] | Transition |  |
|  | **Intermediate Treatments** |  | **INTERMEDIATE TREATMENTS****(14 CCR §** **913.3 [933.3, 953.3])** |
| [[ ] ] | Commercial Thinning |  |
| [[ ] ] | Sanitation Salvage |  |
|  | **Alternative** |  | **ALTERNATIVE PRESCRIPTIONS (ALL DISTRICTS)****(14 CCR §** **913.6 [933.6, 953.6])** |
| [[ ] ] | Alternative Prescription |  |
|  | **Special Prescriptions** |  |  **SPECIAL PRESCRIPTIONS****(14 CCR §** **913.4 [933.4, 953.4])**RPF is required to include specific information when Restoration or Oak woodland management is selected. The FPR element forms are provided at the end. Indicate the specific acreage for each type of restoration or oak area on these forms. |
| [[ ] ] | Special Treatment Area Prescription |  |
| [[ ] ] | Rehabilitation of Understocked Area Prescription |  |
| [[ ] ] | Fuel Break / Defensible Space |  |
| [[ ] ] | Variable Retention |  |
| [[ ] ] | Restoration – Aspen, Meadow, & Wet Area |  |
| [[ ] ] | Ca. Black and Oregon White Oak Woodland Management |  |
|  | **Non-regeneration** |  | **NON-REGENERATION HARVESTING** |
| [[ ] ] | Road Right-of-way |  |
| [[ ] ] | No Harvest |  |

| **TOTAL ACREAGE:**  | **If acreage is different than acreage listed in the legal description provide explanation:** |
| --- | --- |
|  | **-** |

If Selection, Group Selection, Commercial Thinning, Sanitation Salvage or Alternative methods are selected the post-harvest stocking levels must be stated. If Site class varies, then state the post-harvest stocking standard to be met by each applicable Site Class.

NOTE: Location of boundaries of timber-site classes needed for the determination of stocking standards to be applied, down to 20-acres minimum or as specified in district rules shall be mapped per 14 CCR § 1090.5(w)(2) & (12)

| **b. POST-HARVEST STOCKING TO BE MET AT THE COMPLETION OF OPERATIONS** |
| --- |
| **Silvicultural Prescription** | **Site Class****(I, II, III, IV, V)** | **Post-harvest stocking standard** |
| - |  |  |
| - |  |  |
| - |  |  |
| - |  |  |

| **c. TIMBER MARKING** |
| --- |
| In the table below indicate the area requiring tree marking, the method of marking, who completed the marking and if it was an entire or sample area mark. |
| **Marking completed in**(Specify location(s)) | **Trees Marked**(Harvest / Retained) | **Completed By**(RPF / Designee) | **Area Marked**(Entire / Sample area) | **RPF Explanation if needed**(Optional) |
| - |  |  |  |  |
| - |  |  |  |  |
| - |  |  |  |  |
| - |  |  |  |  |

|  [[ ] ]Yes [[ ] ] No | Is the RPF requesting a waiver of required marking? |
| --- | --- |
|  | **If YES, provide directions explaining how the LTO will determine what trees shall be harvested or retained:** |
|  | **If more than one silvicultural method or group selection is used provide instructions to the LTO identifying how boundaries of the different methods or groups have been identified:** |

| **d. FOREST PRODUCTS TO BE HARVESTED:** |
| --- |
| [[ ] ] | Saw Logs | [[ ] ] | Poles | [[ ] ] | Clean Chips |
| [[ ] ] | Peeler Logs | [[ ] ] | Split Wood Products | [[ ] ] | Firewood |
| [[ ] ] | Fuel Wood | [[ ] ] | Fuel chips | [[ ] ] | Other |

| **e. GROUP B SPECIES MANAGEMENT** |
| --- |
| [[ ] ]Yes [[ ] ] No | Are group B species proposed for management? |
| [[ ] ]Yes [[ ] ] No | Are group B or non-indigenous A species to be used to meet stocking standards? |
| [[ ] ]Yes [[ ] ] No | Will group B species need to be reduced to maintain relative site occupancy of group A species? |
| **If any answer is YES, list the species, describe treatment, and provide LTO felling and slash treatment guidance. See table below** |

| **TABLE FOR LTO TREATMENT GROUP B SPECIES MANAGEMENT** |
| --- |
| **Species** | **Treatment Method** | **Felling Instruction** | **Slash Treatment Instructions** |
| - |  |  |  |
| - |  |  |  |

| [[ ] ]Yes [[ ] ] No | Are follow-up treatments expected to maintain relative site occupancy of group A species?[[ ] ] Manual Treatments* Describe:

[[ ] ] Herbicide Treatments* Describe:

[[ ] ] Both |
| --- | --- |
|  | If YES who will be responsible? |
| [[ ] ]Yes [[ ] ] No | Will a Licensed Pest Control Advisor be involved in the process?If YES explain when an advisor will be needed: |

| **f. LTO FELLING INSTRUCTIONS PLAN AREA** |
| --- |
| - |  |

| **g. REGENERATION** |
| --- |
| [[ ] ]Yes [[ ] ] No | Will artificial regeneration be required to meet stocking standards? |

| **h. SITE PREPARATION** |
| --- |
| **Definition of site preparation per 14 CCR §** **895.1: Site preparation means “any activity” involving mechanical disturbance of soils or burning of vegetation which is performed during or after completion of timber harvesting and is associated with preparation of any portion of a logging area for artificial or natural regeneration.** |
| [[ ] ]Yes [[ ] ] No | Will site preparation be used within the logging area?If YES, provide site preparation plan per 14 CCR § 915.4 [935.4, 955.4] |
| [[ ] ]Yes [[ ] ] No | Will site preparation be required to meet stocking? |
|  | * General method(s) of site preparation:
 |
|  | * Type of equipment to be used for mechanical site preparation and/or firebreak construction:
 |
|  | * Methods to protect desirable residual trees per 14 CCR § 917.7 [937.7, 957.7]:
 |
| [[ ] ]Yes [[ ] ] No | * Are there any exceptions or alternatives proposed to the standard rules?

If YES, provide an explanation and justification for the proposed exceptions: |
|  | * Provide a map identifying the boundaries of site preparation areas, if different from the logging area boundaries, and distinguish areas by type of site preparation activity.
 |
|  | * Prior to conducting site preparation activities provide the name of the person responsible for site preparation:
 |
|  | * Name:
 |
|  | * Address:
 |
|  | * Phone #:
 |
|  | * Estimated timing of site preparation activities:
 |

| **i.** **REGENERATION PLAN (rehabilitation of understocked areas or variable retention)** |
| --- |
|  [[ ] ]Yes [[ ] ] No | Is a regeneration plan needed per 14 CCR §913.4 [933.4, 953.4](b) or (d)?If YES, please provide a detailed description for Review Team to evaluate how the proposed management prescription will aid in restoring and enhancing the productivity of commercial timberland.The regeneration plan shall include but not be limited to:* Rehabilitation of understocked areas: site preparation, method of regeneration and other information needed to evaluate the proposal by the Review team:
* Variable Retention: Trees and elements retained, objectives intended to achieved by retention, distribution and quantity of retained tress, intended time-period of retention, and potential future conditions or events the RPF believes would allow harvest of retained trees.
 |

| Regeneration plan:  |
| --- |

**WHEN SELECTING ALTERNATIVE PRESCRIPTION, ASPEN, MEADOW, WET AREA RESTORATION, OR OAK WOODLAND MANAGEMENT CERTAIN ELEMENTS ARE REQUIRED TO BE ADDRESSED PER THE FOREST PRACTICE RULES. BELOW THE ELEMENTS REQUIRED HAVE BEEN CAPTURED IN AN ELEMENT WORKSHEET. IF YOU ARE NOT UTILIZING ALTERNATIVE PRESCRIPTION, ASPEN, MEADOW, WET AREA RESTORATION, OR OAK WOODLAND MANAGEMENT THEN THESE PAGES MAY BE REMOVED.**

**ITEM CC**

| **If the Alternative prescription is selected the RPF shall provide the following information:** |
| --- |
| **PRE- HARVEST STAND DESCRIPTION** |
| **C1 Closest standard silvicultural prescription:** |
| **C2 Description of stand before timber operations:** |
| * **Current species composition –**
 |
| * **Current stocking (expressed in Basal Area or combination Basal Area and Point count –**
 |
| * **Estimate of Basal Area to be removed –**
 |
| **C3 Stand management constraints –**  |
| **C4 Why is the closest Silvicultural Prescription not feasible or appropriate?** |
| **C5 How alternative prescription will differ in securing regeneration, aesthetics, protection of soil, water quality, wildlife habitat, and insect and disease protection –** |
| **POST-HARVEST STAND DESCRIPTION** |
| **C6 Description of stand after completion of timber operations:** |
| * **Management Objective –**
 |
| * **Desired species composition –**
 |
| * **Estimation of remaining stocking after harvest expressed as Basal Area or a combination of Basal Area and Point Count –**
 |
| **C7 Method of designating trees to be harvested or retained –** |
| * **Type of field designation to be followed (entire area mark, sample mark professional supervision of fallers) –**
 |
| **C8 Site preparation method –**  |
| **C9 Regeneration method and timetable to be used for restocking –** |
| **C10** [[ ] ]Yes [[ ] ] No | **Will the alternative prescription have the same on the ground effect of a clear cut?****If YES, then the acreage limitations and requirements of for separation of by a typical logging Unit, yarding equipment limitations, exceptions, and stocking requirements for the clearcut regeneration method shall apply per 14 CCR § 913.6[933.6, 953.6](c)** |

**ITEM DD**

| **If Aspen, Meadow, & Wet Area Restoration is selected then the RPF shall Provide the following Information per 14 CCR § 913.4 [933.4, 953.4]((e)(1-8)** |
| --- |
| **Project type: (select all that apply)****D1 [**[ ] **] Aspen \_\_\_\_\_\_\_AC****D2 [**[ ] **] Meadow \_\_\_\_\_\_\_AC****D3 [**[ ] **] Wet Area \_\_\_\_\_\_\_AC****If more than one is selected give a brief explanation indicating the acreage for each of the restoration areas and describe if these acreages are over lapping:****NOTE: Each project type shall be shown on the plan map, consistent with 14 CCR §** **1034(x), at a scale that shows the location of planned operations.** |
| **D4 Describe the extent of harvesting or treatment:** |
| **D5 Describe the types of harvesting or treatments:** |

| **Per 14 CCR § 913.4 [933.4, 953.4](e)(6) :For projects of twenty (20) acres or less in size, the RPF has the option to not include the requirements of 14 CCR §§ 913.4, 933.4, and 953.4, subsections (e)(4) and (5) if the RPF consults with CDFW prior to plan submittal and, if wet areas are proposed, the RPF shall also consult with the appropriate RWQCB in those locations where the applicable basin plan identifies wet areas as a beneficial use. The results of the consultation(s) shall be included in the plan.** |
| --- |
| **D6 [**[ ] **]Yes [**[ ] **] No** | **Will the restoration area be 20 acres or less?** **If “YES” then the RPF has the option to not include requirements of 14 CCR §** **913.4 [933.4, 953.4](e)(4) & (5). The RPF instead can include a consultation form CDFW and RWQCB if wet areas are listed as a beneficial use in the basin plan.** |
| **D7 [**[ ] **]Yes [**[ ] **] No** | **Has a consultation been completed with CDFW?****If “YES” the results of the consultation must be included in the plan** |
| **D8 [**[ ] **]Yes [**[ ] **] No** | **Does the Restoration area include a wet area where the applicable basin plan identifies wet areas as a beneficial use?****If “YES” a consultation with the appropriate RWQCB must be included in the plan.** |
| **Per 14 CCR §** **913.4 [933.4, 953.4](e)(5)(A): The following shall be based on the condition assessment required in 14 CCR §§ 913.4, 933.4, and 953.4, subsection (e)(4), and identification of problematic aspen, meadow or wet area conditions and their agents/causes. Information shall include a description of factors that may be putting aspen stands, meadow, or wet areas at risk, and presence of any unique physical conditions. Projects shall be designed to contribute to rectifying factors that are limiting restoration, to the extent feasible.** **Measure of success means criteria related to a physical condition that can be measured using conventional forestry equipment or readily available technology to indicate the level of accomplishment of the project goals.** |
| **D9 Project goals:** |
| **D10 Measures of Success:** |

**ITEM EE**

| **White and Black Oak Woodland Management per 14 CCR § 913.4 [933.4, 953.4](f) - The silviculture shall be designed to reduce water, light, and nutrient competition from Group A species in order to promote the sustained viability of Oregon white oak and California black oak stands. Group B species including white and black oaks may also be harvested.****The use of this prescription shall be designed to balance the contribution of resource values attributable to Oregon white oak and California black oak stands with the other goals of forest management specified in 14 CCR § 897.****Use of this management prescription can only be used when the Oregon white and/or Black oak meet or exceeds an average of 35 square feet of basal area per acre.** |
| --- |
| **E1 [**[ ] **]Yes [**[ ] **] No** | **Does the average preharvest stand meet or exceed an average of 35 square feet of basal area per acre?****14 CCR § 913.4 [933.4, 953.4](f)(1)****If “NO” then the prescription may not be used.****If “YES” please provide information per 14 CCR § 913.4 [933.4, 953.4](f)(2)(A)-(C) below** |
| **Pre-harvest stand composition: (estimate by species)** |
| **E2 [**[ ] **]**  | **California Black oak**  |  |
|  | * **Average preharvest basal area:**
 |
|  | * **Pre-harvest stand composition:**
 |
|  | * **Diameter distribution:**
 |
| **E3 [**[ ] **]** | **Oregon White oak** |  |
|  | * **Average preharvest basal area:**
 |
|  | * **Pre-harvest stand composition:**
 |
|  | * **Diameter distribution:**
 |
| **E4 Description of natural and know anthropogenic factors conducive to historic and sustained occupancy:** (climate, soil, light, aspect, fire regime, management practices, or other factors) |
| **E5 Description of known trends in changing composition occurring over time and the factors likely contributing to this trend:** |

| **Post-harvest stand condition: (by species)** |
| --- |
| **E6 [**[ ] **]** | **California Black oak** |
|  | * **Basal Area**
 |
|  | * **Desired stand composition:**
 |
|  | * **Diameter Distribution:**
 |
|  | **General Description:** |
| **E7 [**[ ] **]** | **Oregon White oak** |
|  | * **Basal Area**
 |
|  | * **Desired stand composition:**
 |
|  | * **Diameter distribution:**
 |
|  | **General Description:** |
| **E8 Describe what trees are to be harvested:** |
| **E9 How will residual oak trees be protected during timber operations?** |
| **E10 [**[ ] **]Yes [**[ ] **] No** | **Will marking be completed to identify harvest trees?****If “NO” indicate how trees to be harvested will be identified?** |
| **If marking will be used:** |
| **E11 Marking completed by? [**[ ] **] RPF [**[ ] **] Supervised Designee [**[ ] **] Both** |
| **E12 Trees marked? [**[ ] **] harvest trees [**[ ] **] leave trees [**[ ] **] Both** |
| **E13 Area marked? [**[ ] **] Entire area** **[**[ ] **] Sample area [**[ ] **] 10% of area [**[ ] **] 10 acres per stand type** |
| **E14 How will boundaries of the Oak Woodland management area be identified?****NOTE: Boundaries shall be identified prior to the preharvest inspection and shall be identified on the ground under the supervision of an RPF.** |
| **Decadent and Deformed trees of value to wildlife SHALL be retained unless they pose safety hazard.****The RPF may provide an explanation and Justification explaining why removal is necessary to facilitate timber operations or the objectives of the harvest or special prescription.** |
| **E15 [**[ ] **]Yes [**[ ] **] No** | **Will deformed or decadent trees of value to wildlife be harvested?****If “YES” provide the explanation and justification in Section III** |