

## **DLT Listing Attachment G**

Provide additional information on how the project satisfies the Natural Forest Management criteria set forth in table 3.1 of Section 3.1(a)(1).

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### **Native Species**

Native species dominate the forest and account for 100% of the sum of carbon in the standing live carbon pool (see tables below showing the species composition of live trees in the Project Area by Species Diversity Index (SDI) based on the project's carbon stock inventory). In accordance with Table 3.1 of the Protocol, native species will continue to account for at least 95% of the Project Area's standing live carbon pool

### **70% SDI**

| <b>Common Name</b>            | <b>Species</b>                 | <b>Basal Area/Acre</b> | <b>% of Live Basal Area/Acre</b> |
|-------------------------------|--------------------------------|------------------------|----------------------------------|
| loblolly pine                 | <i>Pinus taeda</i>             | 87.78                  | 79.25%                           |
| sweetgum                      | <i>Liquidambar styraciflua</i> | 6.19                   | 5.59%                            |
| hickory spp.                  | <i>Carya spp.</i>              | 2.22                   | 2.00%                            |
| white oak                     | <i>Quercus alba</i>            | 2.04                   | 1.84%                            |
| eastern redcedar              | <i>Juniperus virginiana</i>    | 1.38                   | 1.25%                            |
| water oak                     | <i>Quercus nigra</i>           | 1.24                   | 1.12%                            |
| southern red oak              | <i>Quercus falcata</i>         | 1.19                   | 1.07%                            |
| winged elm                    | <i>Ulmus alata</i>             | 1.19                   | 1.07%                            |
| red maple                     | <i>Acer rubrum</i>             | 0.84                   | 0.76%                            |
| green ash                     | <i>Fraxinus pennsylvanica</i>  | 0.71                   | 0.65%                            |
| slippery elm                  | <i>Ulmus rubra</i>             | 0.67                   | 0.60%                            |
| American elm                  | <i>Ulmus americana</i>         | 0.54                   | 0.49%                            |
| black cherry                  | <i>Prunus serotina</i>         | 0.53                   | 0.48%                            |
| scarlet oak                   | <i>Quercus coccinea</i>        | 0.52                   | 0.47%                            |
| northern red oak              | <i>Quercus rubra</i>           | 0.38                   | 0.34%                            |
| flowering dogwood             | <i>Cornus florida</i>          | 0.37                   | 0.34%                            |
| cherrybark oak                | <i>Quercus pagoda</i>          | 0.32                   | 0.29%                            |
| black oak                     | <i>Quercus velutina</i>        | 0.30                   | 0.27%                            |
| willow oak                    | <i>Quercus phellos</i>         | 0.30                   | 0.27%                            |
| yellow-poplar                 | <i>Liriodendron tulipifera</i> | 0.25                   | 0.23%                            |
| post oak                      | <i>Quercus stellata</i>        | 0.24                   | 0.21%                            |
| shortleaf pine                | <i>Pinus echinata</i>          | 0.24                   | 0.21%                            |
| blackgum                      | <i>Nyssa sylvatica</i>         | 0.21                   | 0.19%                            |
| laurel oak                    | <i>Quercus laurifolia</i>      | 0.20                   | 0.18%                            |
| sugarberry                    | <i>Celtis laevigata</i>        | 0.18                   | 0.17%                            |
| eastern cottonwood            | <i>Populus deltoides</i>       | 0.17                   | 0.15%                            |
| American hornbeam, musclewood | <i>Carpinus caroliniana</i>    | 0.12                   | 0.11%                            |
| common persimmon              | <i>Diospyros virginiana</i>    | 0.08                   | 0.08%                            |
| Eastern red bud               | <i>Cercis canadensis</i>       | 0.07                   | 0.06%                            |

|                      |                              |        |         |
|----------------------|------------------------------|--------|---------|
| American sycamore    | <i>Platanus occidentalis</i> | 0.06   | 0.06%   |
| Eastern hop hornbeam | <i>Ostrya virginiana</i>     | 0.05   | 0.05%   |
| honey locust         | <i>Gleditsia triacanthos</i> | 0.04   | 0.04%   |
| red mulberry         | <i>Morus rubra</i>           | 0.04   | 0.04%   |
| white ash            | <i>Fraxinus americana</i>    | 0.04   | 0.04%   |
| boxelder             | <i>Acer negundo</i>          | 0.02   | 0.02%   |
| longleaf pine        | <i>Pinus palustris</i>       | 0.02   | 0.01%   |
| American holly       | <i>Ilex opaca</i>            | 0.02   | 0.01%   |
| Total:               |                              | 110.77 | 100.00% |

### 60% SDI

| Common Name                   | Species                        | Basal Area/Acre | % of Live Basal Area/Acre |
|-------------------------------|--------------------------------|-----------------|---------------------------|
| loblolly pine                 | <i>Pinus taeda</i>             | 39.37           | 32.59%                    |
| water oak                     | <i>Quercus nigra</i>           | 10.27           | 8.50%                     |
| sweetgum                      | <i>Liquidambar styraciflua</i> | 10.19           | 8.44%                     |
| white oak                     | <i>Quercus alba</i>            | 7.44            | 6.16%                     |
| yellow-poplar                 | <i>Liriodendron tulipifera</i> | 6.45            | 5.34%                     |
| scarlet oak                   | <i>Quercus coccinea</i>        | 6.42            | 5.32%                     |
| red maple                     | <i>Acer rubrum</i>             | 4.66            | 3.86%                     |
| American elm                  | <i>Ulmus americana</i>         | 4.55            | 3.76%                     |
| cherrybark oak                | <i>Quercus pagoda</i>          | 4.50            | 3.72%                     |
| laurel oak                    | <i>Quercus laurifolia</i>      | 4.09            | 3.38%                     |
| hickory spp.                  | <i>Carya spp.</i>              | 2.84            | 2.35%                     |
| post oak                      | <i>Quercus stellata</i>        | 2.75            | 2.28%                     |
| black willow                  | <i>Salix nigra</i>             | 2.14            | 1.77%                     |
| winged elm                    | <i>Ulmus alata</i>             | 1.90            | 1.58%                     |
| southern red oak              | <i>Quercus falcata</i>         | 1.89            | 1.56%                     |
| eastern redcedar              | <i>Juniperus virginiana</i>    | 1.85            | 1.53%                     |
| green ash                     | <i>Fraxinus pennsylvanica</i>  | 1.63            | 1.35%                     |
| slippery elm                  | <i>Ulmus rubra</i>             | 1.38            | 1.14%                     |
| willow oak                    | <i>Quercus phellos</i>         | 1.25            | 1.03%                     |
| black oak                     | <i>Quercus velutina</i>        | 1.16            | 0.96%                     |
| sugarberry                    | <i>Celtis laevigata</i>        | 0.93            | 0.77%                     |
| sugar maple                   | <i>Acer saccharum</i>          | 0.88            | 0.73%                     |
| American hornbeam, musclewood | <i>Carpinus caroliniana</i>    | 0.75            | 0.62%                     |
| flowering dogwood             | <i>Cornus florida</i>          | 0.47            | 0.39%                     |
| blackgum                      | <i>Nyssa sylvatica</i>         | 0.46            | 0.38%                     |
| white ash                     | <i>Fraxinus americana</i>      | 0.40            | 0.33%                     |
| Eastern red bud               | <i>Cercis canadensis</i>       | 0.09            | 0.08%                     |
| black cherry                  | <i>Prunus serotina</i>         | 0.07            | 0.06%                     |
| Eastern hop hornbeam          | <i>Ostrya virginiana</i>       | 0.05            | 0.04%                     |

|        |  |        |         |
|--------|--|--------|---------|
| Total: |  | 120.83 | 100.00% |
|--------|--|--------|---------|

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### Composition of Native Species

Loblolly pine, at 79% relative basal area, exceeds the 70% Species Diversity Index (SDI) associated with the SE Middle Mixed Forest Piedmont Loblolly-Shortleaf-Oak and SE Middle Mixed Forest Piedmont Cypress & Swamp Hardwood Assessment Areas (AAs) found on the Project Area. The species diversity requirement will be achieved within the first 25 years of the project through thinnings targeted at loblolly pine basal area reduction in the aforementioned AAs. The loblolly pine relative basal area will be reduced from approximately 79% to 70% across the 70% SDI areas within the first 25 years of the project via targeted thinnings and natural stand dynamics.

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### Distribution of Age Classes/Sustainable Management

The project has obtained third-party certification under the American Tree Farm System's standards which require adherence to and verification of harvest levels which can be permanently sustained over time.

Currently, approximately 36% of the Project Area is in ages less than 20 years. Because the Project Area is >10,000 acres, the age class requirement of the Protocol was assessed at the watershed level. The watershed level age class assessment indicates that approximately 2/3rds of the watersheds that comprise the Project Area have more than 40% of their forested acres in ages less than 20 years.

Continual progress will be made towards meeting the age class requirement within 25 years through considerations of age class distributions across the watersheds within the Project Area in harvest/management planning by property management personnel. Age classes will be carefully considered in the scheduling of all final/regeneration harvests.

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### Structural Elements (Standing and Lying Dead Wood)

There is no active removal of lying dead wood in the project area. As such, Table 3.1 of the Protocol requires that standing dead wood stocks be maintained at, or demonstrate progress towards, an average of at least one mtC/acre, or 1% of standing live stocks in standing dead wood, whichever is higher.

As of the end of the reporting period, average stocks of standing dead wood are 0.56 mtC/acre, equivalent to 2.2% of standing live carbon stocks. Although the 1% of standing live stocks in standing dead wood requirement of the Protocol is currently being met, the Project Area does not currently contain an average of at least one mtC/acre in standing dead stocks. However, in accordance with the third-party certified sustainable management plan, Project Area managers will ensure retention of standing and lying dead wood as part of forest management activities and salvage harvesting will be minimized. This will allow for continual progression towards meeting the Protocol requirement.