FOREST MANAGEMENT AND STUMP-TO-FOREST GATE CHAIN-OF-CUSTODY SURVEILLANCE EVALUATION REPORT

State of Maryland DNR – Forest Service

Maryland, USA

SCS-FM/COC-00069P

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> CERTIFIED 29/April/2014

EXPIRATION 28/April/2019



Foreword

Cycle in annual surveillance audits			
1 st annual audit	X 2 nd annual audit	☐ 3 rd annual audit	4 th annual audit
Name of Forest Manager	nent Enterprise (FME) and	abbreviation used in this	report:
State of Maryland DNR – Forest Service (FME or MD DNR)			

All certificates issued by SCS under the aegis of the Forest Stewardship Council (FSC) require annual audits to ascertain ongoing conformance with the requirements and standards of certification. A public summary of the initial evaluation is available on the FSC Certificate Database <u>http://info.fsc.org/</u>.

Pursuant to FSC and SCS guidelines, annual / surveillance audits are not intended to comprehensively examine the full scope of the certified forest operations, as the cost of a full-scope audit would be prohibitive and it is not mandated by FSC audit protocols. Rather, annual audits are comprised of three main components:

- A focused assessment of the status of any outstanding conditions or Corrective Action Requests (CARs; see discussion in section 4.0 for those CARs and their disposition as a result of this annual audit);
- Follow-up inquiry into any issues that may have arisen since the award of certification or prior to this audit; and
- As necessary given the breadth of coverage associated with the first two components, an additional focus on selected topics or issues, the selection of which is not known to the certificate holder prior to the audit.

Organization of the Report

This report of the results of our evaluation is divided into two sections. Section A provides the public summary and background information that is required by the Forest Stewardship Council. This section is made available to the general public and is intended to provide an overview of the evaluation process, the management programs and policies applied to the forest, and the results of the evaluation. Section A will be posted on the FSC Certificate Database (<u>http://info.fsc.org/</u>) no less than 90 days after completion of the on-site audit. Section B contains more detailed results and information for the use by the FME.

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SECTION A – PUBLIC SUMMARY

1. General Information

1.1 Annual Audit Team

Auditor Name:	Kyle Meister	Auditor role:	FSC Lead Auditor
Qualifications:	Kyle Meister is a Certification Forester with Scienti been with SCS since 2008 and has conducted FSC F and surveillance audits in Brazil, Panama, Mexico, Japan, New Zealand, Spain, and all major forest pro States. He has conducted COC assessments in Ore South Carolina, North Carolina, Georgia, West Virg Costa Rica, and Bolivia. Mr. Meister has successfu 9001:2008 Lead Auditor, and SA8000 Social Systen Training Courses. He holds a B.S. in Natural Resou B.A. in Spanish from the University of Michigan; ar Yale School of Forestry and Environmental Studies	M pre-assessmen Costa Rica, Bolivi oducing regions c egon, Pennsylvan inia, Virginia, Cal Ily completed CA ns Introduction a rce Ecology and N nd a Master of Fo	nts, evaluations, a, Indonesia, India, of the United ia, Tennessee, ifornia, Panama, R Lead Verifier, ISO nd Basic Auditor Management and a restry from the
Auditor Name:	Mike Ferrucci	Auditor role:	SFI Lead Auditor
Qualifications:	Mike Ferrucci is the SFI Program Manager for NSF- Registrations and is responsible for all aspects of the He is qualified as a RAB-QSA Lead Auditor (ISO 140 Systems), as an SFI Lead Auditor for Forest Manage Custody, as an FSC Lead Auditor Forest Management Farm Group Certification Lead Auditor, and as a GF Sustainable Forest Initiative (SFI) certification and the United States. He has also led or participated in Council (FSC) certification projects in nearly one do precertification gap-analysis project on tribal lands also co-led the pioneering pilot dual evaluation of the Fremont-Winema National Forest. Mike Ferrucci has 33 years of forest management of sustainable forest management planning; in certific managed; in the application of easements for large ecology, silviculture, and management of mixed sp regeneration and management of native hardwood participated in assessments of forest management States, with field experience in 4 countries and 33 the Society of American Foresters for over thirty-fi Auditor's Forum. Mike is also a Lecturer at the Yal Environmental Studies, where he has taught gradu management, harvesting operations, professional financial analysis.	the firm's SFI Certi 201 Environmenta 201 Environmenta 20	ification programs. al Management bent, and Chain of Custody, as a Tree Mike has led eviews throughout orest Stewardship joint scoping or United States. He wardship Unit on expertise is in as sustainably orests, and in the ch an emphasis on as conducted or ughout the United been a member of Past Chair of the SFI try and workshops in forest

1.2 Total Time Spent on Evaluation

Α.	Number of days spent on-site assessing the applicant:	3.0
В.	Number of auditors participating in on-site evaluation:	2
С.	C. Additional days spent on preparation, stakeholder consultation, and post-site follow-up:	
D.	Total number of person days used in evaluation:	8

1.3 Standards Employed

1.3.1. Applicable FSC-Accredited Standards

Title	Version	Date of Finalization
FSC-US Forest Management Standard V1-0		July 8, 2010
All standards employed are available on the websites of FSC International (<u>www.fsc.org</u>), the FSC-US		
(www.fscus.org) or the SCS Standards page (www.scsglobalservices.com/certification-standards-and-program-		
documents). Standards are also available, upon request, from SCS Global Services (<u>www.SCSglobalServices.com</u>).		

1.3.2. SCS Interim FSC Standards

Title	Version	Date of Finalization
SCS FSC Chain of Custody Indicators for Forest V5-1 December 3, 2012		December 3, 2012
Management Enterprises		
This SCS Interim Standard was developed by modifying SC management in the region and by incorporating relevant and comments from stakeholders. More than one month Interim Standard for the country / region was sent out for International, SCS, the forest managers under evaluation, available at <u>www.scsglobalservices.com/certification-star</u> SCS Global Services (www.SCSglobalServices.com).	components of the prior to the start of r comment to stakel and the National In	Draft Regional / National Standard the field evaluation, the SCS Draft nolders identified by FSC itiative. A copy of the standard is

2 Annual Audit Dates and Activities

2.1 Annual Audit Itinerary and Activities

2016 FSC/SFI Surveillance Audit

April 26, 2016 - Savage River State Forest

Lake House, New Germany State Park

East Shale Road: Class 2 road condition.

East Shale Road Hardwood Thinning (Compartment 15, SR-02-15): Completed thinning in an overstocked oak-hardwood stand; basal area was reduced from 181 to 120 square feet per acre over 44 acres of the harvest area. Landing area and main skid trail entrance rocked and partially geotextiled to control erosion and access. Buyer purchased 90 mbf Int. and 112 cords pulpwood estimated in sale documents. Discussion of residual damage, retention, and other harvest impacts with stakeholders.

East Shale Road Hardwood Regeneration Harvest (Compartment 15, SR-06-15): Ongoing overstory removal harvest from an 84-year old red oak, maple, cherry stand. The 17.5 acre management area has 2.5 acres in no-cut reserve/buffers and 15 acres of harvesting nearly completed. Some oak trees in the

management area have died due to storm damage and gypsy moth outbreaks, with firewood cutting evident. However, snags were observed near the property boundary, which was sufficiently flagged and buffered to avoid any incidental take of trees from the neighboring property. Retention consisted of clumps and dispersed individuals throughout the diameter class. Two areas were excluded from the sale due to water courses and later successional recruitment. A Maryland Master Logger purchased the sale. Discussion of firewood permitting and guidelines with stakeholders.

Amish Road North Hardwood Thinning (Compartment 6, SR-03-15): Completed hardwood thinning on 32 (of 40) acres removing 48 mbf Int. sawtimber and 123 cords of pulpwood to reduce the stocking from 145 to 97 square feet of basal area per acre. Several acres were excluded from the harvest including areas that were excessively rocky, had small poletimber, provided additional watercourse buffers, or were wetlands. Principal objective was to diversify the species mix to reduce impacts of gypsy moth outbreaks. The same logger as Comp 15, SR-06-15 purchased the sale. Law enforcement and fisheries staff were interviewed about general enforcement and recreational issues on state forest land.

Negro Mountain Trail Thinning (Compartment 8, SR-01-15): Completed hardwood improvement thinning on 32 (of 40) acres removing 42 mbf Int. sawtimber and 76 cords of pulpwood to reduce the stocking by about one-third. Discussion about early successional habitat, use of non-native species, and NTFPs with stakeholders.

Negro Mountain Snowmobile Trail: Class 3, Status 2 (needs improvement) with Recreational Trail Grant funds applied for and expected.

Stand 48 Conifer Thinning (SR-07-15): 3.5 acres harvested of the 5.2 acre stand, removing 21 mbf and 6 cords of a mix of Norway spruce (*Picea abies*), White pine (*Pinus strobis*), and Scotch pine (*Pinus sylvestris*). Hardwoods retained.

Stand 43 Conifer Regeneration Harvest (SR-07-15): 9 (of 10) acres harvested using clear-cut with reserves. Prior to harvest understory invasive control spraying was completed. Approved plan calls for planting 50 white pine seedlings per acre, but forest manager is concerned that deer will immediately destroy the seedlings, so protection measures are being discussed.

Hard Struggle Access Road: Gated, seasonally open (hunting season) road with moderate ruts and potholes. Condition 3 (critical) northernmost section not eligible for Recreational Trail Grant funds, so there is no current plan for repair.

SR-2014-S-7, Compartment 17 - Conifer Thinnings sold as SR-07-14: This planted (circa 1960) conifer stand (mixed conifer species, native and non-native), previously thinned twice, has recently been thinned again, removing about 1/3 of the basal area. 42 acres were thinned of 46 initially planned. Road Review: Asa Durst Access Road Class 3 (status 1-2) Road Review: Asa Durst Access Road Class 4 (status 1-2 with some 3)

Wolf Swamp Hemlock Wooly Adelgid pesticide treatments: An ESA based on an area described as the most significant concentrations of quality hemlock on the Savage River State Forest, the non-native Hemlock Wooly Adelgid scale insect would be expected to eventually kill all of the hemlock trees. A cooperative partnership with the Maryland Department of Agriculture, Maryland Park Service, Maryland Conservation Corps, and the Maryland Forest Service was formed to treat the stand and attempt to protect it using insecticides applied periodically. Here and elsewhere biological control methods have

been tried, including the release of predatory insects. Imidacloprid-based insecticide was to treat nearly 4,000 trees, beginning in October 2015. The initial treatment area includes 284 acres of high priority hemlock stands which had been thinned and which have been treated with soil or stem injection or soil drench, depending on position relative to wetlands. Depending on survival rate of the trees, population trends of hemlock in the landscape and the build-up of populations of biological control agents, different treatment options will be evaluated in the future.

April 27, 2016 - Potomac Garrett-State Forest

Potomac/Garrett State Forest Office:_Introductions, program discussions, travel arrangements and logistics. Discussion of firewood permitting and guidelines.

Road Review: Wallman and Laurel Run Roads – Class 1 roads; Laurel Run Rd. status (3), and Wallman Rd. status (1).

PG-2015-S-04 & 05, Compartment 39-1/6; 2 sites Thinning (1) and Shelterwood (6) sold as PG-04-15. Site was spot-treated with glyphosate to control hay-scented fern prior to harvest in order to secure regeneration within shelterwood unit. Thinning largely driven by storm damage, which was affecting the aesthetics of a neighboring recreational trail. In both stands, retention of oak, cherry, maple and hemlock was evident. Objective of shelterwood was to secure cherry and maple regeneration to diversify the species mix against future gypsy moth outbreaks. Retention dispersed within main harvest area, with retention clumps located at sale boundaries in order to protect them. Discussion on density of recreational trails and ESA planning. Draft FY2017 annual work plan states the ESA plans were to be completed over the winter of 2016, which did not occur.

Road Review: Jct. of Snaggy Mtn. Road and Fire Tower Road- Class 1 and Class 3 Roads. Due to cooperation with recreational staff and how available earmarked funds could be used, DNR staff were able to upgrade a stream-crossing at a third of price quoted by a contractor through the state procurement system.

Snaggy Mountain Group Campsite / with comfort station. Observation of campsite amenities.

PG-2015-S-01, Comp. 32-11; thinning-from-below sold as PG-02-15. Removal of mature, mid-story red maple to favor cherry and oak mid- and over-story. Adjacent to protected, un-entered water course, Murley Run, with similar species composition transitioning into wetter site oaks. Discussion of ESA plans.

PG-2014-S-03, Comp 32-29/30 Noncommercial TSI / CTR with special needs cooperators. Crop tree release project after clearcutting of red pine plantation in the 1980s. Objective of red pine plantation was to establish a native hardwood understory and seedbank. Objective of crop tree release was to free mid-story cherries and oaks from competition from suppressed neighboring trees. Contractor was a company that employs citizens with special needs that conducts what are normally considered noncommercial projects on state forests in an attempt to make sales of low-grade commercial products to support the training and employment of these individuals.

Road Review: Forest Access Road / Snowmobile Trail - Class 4 Road.

PG-2006-S-11, Wildlife habitat improvement project – Food plot / edge cut / RGS woodcock survey.

PG-2015-S-02&03, Comp 32-16/17 Thinning sold as PG-03-15. Discussion of post-harvest inventory methods to evaluate stand objectives with staff. Discussion with stakeholders about early successional habitat representation and local cooperative fire projects.

PG-2015-S-06 & 07, Comp 45-3/19 Piney Mtn. Thinning. Removal of over-mature oaks and selection of higher quality mid- to co-dominant individuals to recruit for the next harvest entry. Discussion of preand post-harvest herbicide treatments to control herbaceous competition to secure oak regeneration.

Road Review: Piney Mtn. Road – Class 1; Handicapped Hunter Access – Class 3; Yough Mtn. Club Emergency Access – Class 4. Access to site is seasonal and open to handicapped hunters. Roads are specially cared for to allow more flexible vehicle access to the forest for hunters.

Review of training, chemical, complaints, inventory and sales records. Inspection of state forest office to ensure that OSHA postings are visible. Also checked timber harvest contracts. All contracts include FSC/SFI information, including claims (see item 22).

April 28, 2016 - Green Ridge State Forest

Green Ridge State Forest Headquarters: Opening Meeting

Old Williams Road active silviculture site (GR 04-16): Active, nearly completed variable retention harvest in a 109 year-old mixed oak stand. The harvest area includes 24 acres while the area considered for management was 39 acres. Discussion about retention strategy and calibration between foresters and forestry technicians. Discussion on allocation of timber harvest proceeds to counties and DNR. Jacobs Road thinning (GR 05-16): Completed improvement thinning in a 43-year old overstocked mixed oak sand on a good-quality site. Observation of intentional retention of grapevines to improve softmast quality for wildlife. Adjacent wildlife grass opening previously maintained by wildlife division that is succeeding to black locust. Harvested by Maryland Master Logger.

Stafford Trail completed silviculture site (GR 05-15): Completed variable retention harvest in a 103 yearold mixed oak stand. The harvest area includes 22 acres while the area considered for management was 41 acres. Observation of mostly dispersed retention; however, hickories and snags tended to have more grouped retention to protect these trees from wind and harvest operations. Harvest purchased by master logger.

Campsite #72, Stafford Trail. Observation of campsite and signage.

Dug Hill Road silviculture site (GR 07-16): Marked and sold variable retention harvest in a 136 year-old mixed oak stand. The harvest area includes 22 acres while the area considered for management was 32 acres. Auditors reviewed sale layout and marking, with particular attention to marked reserve trees within the stand. Retention is dispersed and includes several oaks and, where available, native pines of various species. Observation of intentional retention of grapevines for softmast.

Dug Hill Road silviculture site (GR 03-15): Completed mid-rotation thinning to the B-level in a 43-year old mixed hardwood stand. The harvest area is 16 acres. Control of Ailanthus was done prior to harvest and may need to occur again.

Double Pine silviculture site (GR 06-16): Completed variable retention harvest in a 113-year old mixed oak stand adjoining a hiking trail. Understory white pines were maintained and most were not impacted during harvesting due to marking techniques used to avoid higher density pine areas. Mostly hardwood was removed in order to favor conifer diversity in the landscape; however, oak regeneration is highly likely to be achieved on the site as well. A wildlife opening doubled as the log landing and was disked and hayed by the operator prior to closing the sale.

Review of training, chemical, complaints, inventory and sales records. Inspection of state forest office to ensure that OSHA postings are visible. Also checked timber harvest contracts. All contracts include FSC/SFI information, including claims (see item 22).

Closing Meeting Green Ridge State Forest Headquarters

2.2 Evaluation of Management Systems

SCS deploys interdisciplinary teams with expertise in forestry, social sciences, natural resource economics, and other relevant fields to assess an FME's conformance to FSC standards and policies. Evaluation methods include document and record review, implementing sampling strategies to visit a broad number of forest cover and harvest prescription types, observation of implementation of management plans and policies in the field, and stakeholder analysis. When there is more than one team member, team members may review parts of the standards based on their background and expertise. On the final day of an evaluation, team members convene to deliberate the findings of the assessment jointly. This involves an analysis of all relevant field observations, stakeholder comments, and reviewed documents and records. Where consensus between team members cannot be achieved due to lack of evidence, conflicting evidence or differences of interpretation of the standards, the team is instructed to report these in the certification decision section and/or in observations.

3. Changes in Management Practices

There were no significant changes in the FME's management system that affected conformance to FSC requirements. Staff completed training in in forest inventory, wild fire, fire equipment, and trail maintenance among other types. Records of training are maintained in personnel files as confirmed onsite. Several recreational and ecological restoration projects have been started or completed since the last audit. All timber sales are sold as certified. Harvest and chemical application records were also reviewed.

4. Results of the Evaluation

4.1 Existing Corrective Action Requests and Observations

	Finding Number: 2015.1		
	jor CAR X Minor CAR Observation		
FMU CAR/OBS issue	d to (when more than one FMU):		
Deadline	Pre-condition to certification		
	3 months from Issuance of Final Report		
FSC Indicator:	Other deadline (specify): FSC-US indicator 5.6.c.		
	Background/Justification in the case of Observations): Rates and methods of		
timber harvest are no quality across the FM below productive po	ot leading to achieving desired conditions, or improving or maintaining health and IU. Overstocked stands and stands that have been depleted or rendered to be tential due to natural events, past management, or lack of management, are not sired stocking levels and composition at the earliest practicable time as justified in		
over 5 years. SILVAH forest types are olde regeneration difficult	vest levels have been at below planned acres to be treated in annual work plans for I information shows that sufficient regeneration is not being achieved. These oak r, overstocked, and at risk of becoming distressed, which could make establishing t. This is a significant deviation from planned activities described in Annual Work mplemented to achieve desired stocking and species compositions.		
achieving desired con stands and stands th events, past manage	quest (or Observation): Rates and methods of timber harvest shall lead to nditions, and improve or maintain health and quality across the FMU. Overstocked at have been depleted or rendered to be below productive potential due to natural ment, or lack of management, shall be returned to desired stocking levels and arliest practicable time as justified in management objectives.		
FME response	See doc: SRSF Silviculture2015-2016.xls:		
(including any	Since the 2015 audit, MD DNR Forest Service has instituted a quarterly silviculture		
evidence submitted)	reporting system for the Western State forests. The Eastern Shore forests have reporting provided by Parker Forestry Service. This system tracks all silvicultural proposals that have been approved through the 3-step review process. Each		
proposal can be identified by a unique code based on forest, annual work plan, type and number. According to the third quarterly report which ended on March 31, 2016, Savage River State Forest has harvested (or has active) eight timber sales on 213 acres, with an estimated volume of 770 thousand board feet with another seven sales under contract with an estimated volume of 965 thousand board feet. A spreadsheet doc SRSF Silviculture 2015-2016.xls displays all			
	currently approved silvicultural work for Savage River State Forest. Three tabs display parts of this work: the Silviculture tab display the project according the fiscal year approved, the Silviculture By Status tab display work according to progress to completion, and the AWP-FY17 tab displays work approved and available for harvest after July 1, 2016.		
SCS review	In addition to the report shown for Savage River SF, FME demonstrated quarterly silvicultural reports for other state forests of the western region (e.g., Green Ridge SF). During discussions with FME staff, the issue of keeping up with harvests involves several variables, including mechanisms for tracking progress, issues related to operability and accessibility to stands scheduled for entry, recent		

	salvage harvests, and, in some cases, timber markets. FME determined that tracking timber harvest scheduling progress would be a possible solution to monitoring these and other variables. FME also determined that a root cause was a lack of removing inoperable areas from the current productive acreage, which	
	was continually resulting in the failure to meet area control objectives (i.e., annual allowable harvest). Reclassification has helped to reduce the amount of overstocked, inoperable stands within the harvestable area. Including reserves and protected areas, this now puts approximately two thirds of the state forest area in the western region out of production. However, FME may be able to put some of these inoperable areas back into productive if different harvesting	
Status of CAR:	methods or equipment become available in the region over time. X Closed Upgraded to Major Other decision (refer to description above)	

	Finding Number: 2015.2	
Select one: 🗌 Ma	jor CAR Minor CAR X Observation	
FMU CAR/OBS issue	d to (when more than one FMU):	
Deadline	 Pre-condition to certification 3 months from Issuance of Final Report Next audit (surveillance or re-evaluation) Other deadline (specify): No deadline 	
FSC Indicator:	FSC-US Indicator 6.2.b.	
Non-Conformity (or Background/ Justification in the case of Observations): When RTE species are present or assumed to be present, modifications in management are made in order to maintain, restore or enhance the extent, quality and viability of the species and their habitats. Conservation zones and/or protected areas are established for RTE species, including those S3 species that are considered rare, where they are necessary to maintain or improve the short and long-term viability of the species. Conservation measures are based on relevant science, guidelines and/or consultation with relevant, independent experts as necessary to achieve the conservation goal of the Indicator.		
prescribed fire applic periodic natural or p lack of human resou determined that rest	e, there are several Delmarva Bay restoration projects that will require consistent cations for the first three years after initial restoration activities followed by rescribed fire at certain intervals. FME currently has been hindered by weather and rces to keep up with these activities. Specialists involved in this project have coration objectives for this community of RTE plants cannot be met without fire. Juation with prescribed fire at Shale Barrens in the Western Region.	
	equest (or Observation): FME should ensure that it implements prescribed fire manner to better ensure the success of its ecological restoration projects.	
FME response	See doc: CF-Rx-Burn-Priorities-2016.04.19.xls:	
(including any evidence submitted)	The Forest Service and Wildlife & Heritage are following the tiered ESA prescribed burn priority list (attached) that was created about 3 years ago. This periodically updated list contains the site location, name, and status of each site. The status includes the progress of fire lines, when the site was last burned, ground conditions, and seasonal restrictions. The status also notes if there are any issues with burning the site due to upcoming commercial thinnings where a mill won't accept burned material. Burn plans for the sites are created and approved well in advance of the burning season in order to eliminate any potential delays that paperwork could cause. The biggest factor in getting sites burned has been weather. Typically there is only a 1-2 week window in the spring when it is both dry enough and greenup begins. Two years ago (2014) the spring burning season was abnormally wet, so only the driest sites were able to be burned. Last year and this year (so far) have had much more favorable conditions for burning, so the acreage burned in ESAs has been much greater. The second largest hurdle for completing burns is manpower. When the weather is forecast to be favorable for burning, the Forest Service contacts cooperating agencies and organizations (Maryland Park Service, US Fish & Wildlife Service, The Nature Conservancy, Maryland Conservation Corp, etc.) to assist on our burns. Finally, all of these sites required the establishment and maintenance of fire lines and breaks for both the safety of fire personnel and neighboring landowners, as well as to the resource(s)	

	that Heritage wants to enhance and protect. Locations and size of the fire lines in many cases needed careful oversight by Heritage in order to fulfill their goals.
SCS review	FME has conducted nine burns since the last audit on the Maryland Shore and has developed a system to prioritize areas for each burn season. For the 2016 season so far, approximately 40% of the areas scheduled for prescribed burns have been completed. In the western region, the shale barrens have not receive any prescribed burns, but have received other treatments such as chemical control of invading trees. Forestry staff are still in discussion with Heritage staff about using timber harvests located near priority areas to prepare sites for prescribed burns. However, see OBS 2016.4.
Status of CAR:	X Closed
	Upgraded to Major Other decision (refer to description above)

	Finding Number: 2015.3		
Select one: 🗌 Ma	jor CAR Minor CAR X Observation		
FMU CAR/OBS issue	d to (when more than one FMU):		
Deadline	Pre-condition to certification 3 months from Issuance of Final Report		
	Next audit (surveillance or re-evaluation)		
	X Other deadline (specify): No deadline		
FSC Indicator:	FSC-US Indicator 6.5.d.		
 Non-Conformity (or Background/ Justification in the case of Observations): The transportation system, including design and placement of permanent and temporary haul roads, skid trails, recreational trails, water crossings and landings, is designed, constructed, maintained, and/or reconstructed to reduce short and long-term environmental impacts, habitat fragmentation, soil and water disturbance and cumulative adverse effects, while allowing for customary uses and use rights. This includes: access to all roads and trails (temporary and permanent), including recreational trails, and offroad travel, is controlled, as possible, to minimize ecological impacts; road density is minimized; sediment discharge to streams is minimized; there is free upstream and downstream passage for aquatic organisms; impacts of transportation systems on wildlife habitat and migration corridors are minimized; area converted to roads, landings and skid trails is minimized; 			
-	nentation is minimized; and ads are closed and rehabilitated.		
FME has fallen behind in its road construction and maintenance upgrades or closures due to several factors outside of its control in the Western Region. There are several crossings and other drainage features in need of upgrades (or closures) in order to prevent negative impacts to soil and water. Corrective Action Request (or Observation): FME should consider accelerating the rate of implementation of its road construction and maintenance program to ensure continued conformance to			
the requirements of	6.5.d.		
FME response (including any	See WMD State Forest Roads Summary.doc: To summarize efforts to regarding the Western Maryland state forest roads:		
evidence submitted)	 The Forest Roads Management for Forest Operations on Maryland State Forests was established in 2012. This policy provides the procedures for establishing and maintaining forest roads on State Forests. The guidance document was recently (2016) refined to better accommodate the road status data. A state forest roads inventory has been completed including all road segments, culverts and bridges. Each culvert size, condition and maintenance priority has been documented and geo-referenced. The inventories have been updated to include road status data. This field indicates the status for each road segment (1=good, 2=stable, 3=needs work) providing the forest manager the overall condition of the road system and where to focus resources. Initially, a \$900,000 budget was secured through the DNR Critical 		

	 Maintenance program. This funding, traditionally has only been available for DNR building maintenance, was the first time state forest road maintenance projects had been included. This progress is the direct result of FMEs continued efforts addressing the importance of state forest road maintenance and maintaining our forest certification. Since then, another \$600,000 has been assigned to state forests road projects in Western Maryland. High-level meetings between Department of Natural Resources and Maryland Department of the Environment (permitting and enforcement) will begin in May 2016 to discuss the potential of streamlining DNR permits submitted to MDE for review and approval. This process has been onerous in getting state forest roads work started. While the permitting process will be wider than just our state forest roads work, MFS interests and concerns have been voiced and have help prompt the initiation of this collaborative effort.
SCS review	A summary of completed and future projects was provided in the document
	provided by the FME. Through interviews with FME staff and field observation,
	SCS confirmed that significant progress has been made in prioritizing maintenance
	and in streamlining the review process to better control costs on road projects.
Status of CAR:	X Closed
	Upgraded to Major
	Other decision (refer to description above)

	Finding Number: 2015.4					
Select one: Major CAR Minor CAR X Observation						
FMU CAR/OBS issued to (when more than one FMU):						
Deadline	Pre-condition to certification					
	3 months from Issuance of Final Report					
	Next audit (surveillance or re-evaluation)					
	X Other deadline (specify): No deadline					
FSC Indicator:	FSC-US Indicator 6.6.c.					
	Background/Justification in the case of Observations):					
	cation methods are selected to minimize risk to non-target species and sites. When					
	ce between aerial and ground application, the forest owner or manager evaluates					
the comparative risk	to non-target species and sites, the comparative risk of worker exposure, and the					
overall amount and t	type of chemicals required.					
	ne with a helicopter equipped with sensitive GPS equipment, which coupled with					
-	naneuverability, helps to reduce the risk to non-target species and sites and he risk of the pilot's exposure to chemicals					
	he risk of the pilot's exposure to chemicals.					
On Wango Pines, du	ring an aerial herbicide treatment the helicopter operator sprayed non-target					
-	norse sugar and sheep laurel) that were clearly designated on maps and in GIS with					
•	was discussed with the forester in charge prior to the application, but apparently					
	It this sensitive site (note that others sensitive areas were avoided).					
FME's contractor, Pa	rker Forestry, has suggested some corrective actions to implement during the next					
application to elimin	ate this risk in the future (i.e., an onsite briefing just prior to spraying). Initial					
	the applicator on these corrective actions took place well prior to the FSC audit.					
	equest (or Observation):					
	hat corrective actions are implemented to avoid risk to non-target species during					
aerial applications.						
FME response	See Post Spray maps in 2016 Audit folder:					
(including any evidence	The procedures followed by Parker Forestry Services (PFS) to better insure a correct and tight spray pattern were to have a pre-spray meeting with the					
submitted)	helicopter contractor prior to the spray being performed. This occurred the day of					
Submitteuj						
	the spray, at each site. PFS highlighted each potential sensitive area the operator should be particularly careful around. PFS was on the site during each of the three					
	days the spraying occurred. Areas of oak that were to be avoided were made part					
	of the GPS files (spray areas) given to the operator. Spray maps as recorded by					
	the operator are included in the 2016 audit folder for review.					
SCS review	Post-herbicide treatment maps were shown for recent aerial sprays. In all cases,					
	protected individual trees and protected areas were not sprayed according to GPS					
	data provided by the operator. FME also provided copies of hazard maps that its					
	forestry contractor on the Maryland Shore reviews with aerial herbicide					
	applicators prior to treatment, as well as records of these pre-application					
	meetings.					

Status of CAR:	X Closed
	Upgraded to Major
	U Other decision (refer to description above)

	Finding Number: 2015.5			
Select one: 🗌 Ma	jor CAR 🗌 Minor CAR 🛛 Observation			
FMU CAR/OBS issue	d to (when more than one FMU):			
Deadline	Pre-condition to certification			
	3 months from Issuance of Final Report			
	Next audit (surveillance or re-evaluation)			
	X Other deadline (specify): No deadline			
FSC Indicator:	FSC-US Indicator 7.2.a.			
Non-Conformity (or	Background/ Justification in the case of Observations):			
The management pla	an is kept up to date. It is reviewed on an ongoing basis and is updated whenever			
necessary to incorpo	rate the results of monitoring or new scientific and technical information, as well as			
to respond to changi	ng environmental, social and economic circumstances.			
	FME has made some changes to its management plans in response to OBS 2014.10 that have been incorporated into some SFMPs, but not all.			
Corrective Action Re	quest (or Observation): FME should ensure that its response to OBS 2014.10 is			
fully incorporated in	to management planning documents by the next audit.			
FME response	All Sustainable Forest Management Plans have been updated and are available			
(including any	online for reviewing and download on the particular state forest webpage. A			
evidence	Chemical Use section is found in all SFMPs: SRSF pg 60, PGSF pg 56, GRSF pg 86.			
submitted)				
SCS review	SCS verified that the content as cited by FME is included in all State Forests' FMPs.			
Status of CAR:	X Closed			
	Upgraded to Major			
	Other decision (refer to description above)			

4.2 New Corrective Action Requests and Observations

	Finding Number: 2016.1			
Select one: 🗌 Ma	or CAR Minor CAR X Observation			
FMU CAR/OBS issued to (when more than one FMU):				
Deadline	 Pre-condition to certification 3 months from Issuance of Final Report Next audit (surveillance or re-evaluation) Other deadline (specify): no deadline 			
FSC Indicator:	FSC-US, 6.3.a.1, 6.3.d and 6.3.e			
interviews with FME are currently. FME is a wildlife manageme	Background/Justification in the case of Observations): According to the FMP and staff, native conifer species were likely more prevalent on the landscape than they considering expanding the use of native and non-native conifers on certain sites as nt component, to restore native species (both conifer and broadleaf), and possibly hange and invasive pests/ pathogens.			
option, but FME staff given deer browse pr pitch pine and Virgin	here native conifer restoration with white pine was written into the site plan as an were debating on whether or not to continue with that management trajectory ressure. Certain activities observed, specifically retention of hemlock, white pine, a pine, within thinning and regeneration harvest units likely contribute to ncreasing native conifer cover.			
non-native conifer co	scape level, FME has not assessed the desired future condition of the native and imponent, including selection of species that will meet social, economic, and depending on site conditions.			
Corrective Action Request (or Observation): FME should consider conducting a landscape-level analysis of native and non-native conifer distribution and develop desired future conditions for their distribution based on variables such as wildlife, restoration, hydrology, adaptation to climate change and pests/ pathogens, socioeconomic conditions, etc. Justification for any use of non-native or non-local growing stock should be justified in the analysis.				
Various indicators of 6.3.a.1, 6.3.d and 6.3	Criterion 6.3 may be useful in this assessment; however, of most concern are .e.			
FME response				
(including any				
evidence				
submitted)				
SCS review				
Status of CAR:	Closed			
	Upgraded to Major			
	Other decision (refer to description above)			

	Finding Number: 2016.2				
Select one: 🗌 Ma	jor CAR Minor CAR X Observation				
FMU CAR/OBS issue	d to (when more than one FMU):				
Deadline	 Pre-condition to certification 3 months from Issuance of Final Report Next audit (surveillance or re-evaluation) 				
FCC Indianton	X Other deadline (specify): no deadline				
FSC Indicator:	FSC-US, 6.5.d and 6.5.g.				
Trail funding and/or of existing authorized maintenance for exis also some concern fr Furthermore, the derarea. Fewer restrictional staf	Background/Justification in the case of Observations): restrictions on its use may not allow for the timely maintenance and closure needs d and unauthorized trails. The audit team observed instances where trail ting trails did not occur due to lack of funds or difficulty in obtaining them. There is om stakeholders on the density of trails, particularly its effect on hunting success. Insity of unauthorized trails may result in a loss of productive and protected forest ons on use of trail funds may result on greater opportunities for forestry, heritage f to collaborate on the protection of sensitive resources at reduced cost while				
	a positive recreational experience.				
Recreational trails an long-term environme adverse effects, while access to all road travel, i trail density i erosion is mi sediment dis there is free impacts of tr area convert habitat fragn unneeded tra	nimized; charge to streams is minimized; upstream and downstream passage for aquatic organisms; ail systems on wildlife habitat and migration corridors are minimized; ed to trails is minimized; nentation is minimized; ails are closed and rehabilitated.				
Recreation use on th and wildlife habitats.	e FMU should be managed to avoid negative impacts to soils, water, plants, wildlife				
FME response (including any evidence submitted) SCS review Status of CAR:	Closed Upgraded to Major Other decision (refer to description above)				

	Finding Number: 2016.3			
Select one: 🗌 Ma	jor CAR Minor CAR X Observation			
FMU CAR/OBS issue	d to (when more than one FMU):			
Deadline	Pre-condition to certification			
	3 months from Issuance of Final Report			
	Next audit (surveillance or re-evaluation)			
	X Other deadline (specify): no deadline			
FSC Indicator:	FSC-US, 6.9.a			
Non-Conformity (or	Background/Justification in the case of Observations): During interviews with FME			
staff, there was discu	ussion on possibly expanding the use of Norway spruce and Red pine to mitigate the			
loss of native conifer	s, and to continue to serve as habitat for RTE species. Any expanded use beyond			
the currently planted	area would have to be justified and based on scientific data.			
Siberian crapabble is no longer produced in the state nursery, but has been used in the past on early successional habitat projects. State seed mixes for use on log landings and other sensitive areas include non-native clovers and grasses. Current recommendations from heritage staff are to avoid use of Siberian crabapple and the seed mix.				
	equest (or Observation):			
	cies should be contingent on the availability of credible scientific data indicating			
• •	s are non-invasive and that their application does not pose a risk to native			
	g any significant displacement of native species.			
FME response				
(including any				
evidence				
submitted)				
SCS review				
Status of CAR:	Closed			
Upgraded to Major				
	Other decision (refer to description above)			

	Finding Number: 2016.4				
Select one: Major CAR Minor CAR X Observation					
FMU CAR/OBS issue	d to (when more than one FMU):				
Deadline	Pre-condition to certification				
	3 months from Issuance of Final Report				
	Next audit (surveillance or re-evaluation)				
FSC Indicator:	X Other deadline (specify): no deadline FSC-US, 7.1.b, 7.1.c and 7.1.e.				
	Background/Justification in the case of Observations):				
• •	in describes the history of land use and past management, current forest types and				
	ent, size class and/or successional stages, and natural disturbance regimes that				
	ndicator 6.1.a). However, the historical presence of conifers in the management				
-	led to include the knowledge presented by local forestry staff during the audit,				
which could help set	the stage for conifer objectives on the landscape.				
	e being completed on time according to draft annual work plans reviewed.				
-	rafts, ESA plans for FY2017 were to be completed over the winter of 2016. A failure				
	ans may result in limited opportunities to avoid negative impacts to these areas,				
	ve management may benefit the species or communities found in them. ESA et the stage for the implementation of maintenance and recovery objectives for				
	ensitive ecosystems, as well as detail monitoring strategies that are compatible				
with these objectives					
	quest (or Observation):				
	ribe historical ecological conditions, history of land use and past management,				
	and associated development, size class and/or successional stages, and natural				
disturbance regimes	that affect the FMU (see Indicator 6.1.a).				
	for ESAs, should include a description of the following resources and outline				
activities to conserve					
	ned, or endangered species and natural communities (see Criterion 6.2);				
	and community diversity and wildlife habitats (see Criterion 6.3);				
•	ve Sample Areas (see Criterion 6.4);				
-	vation Value Forests (see Principle 9);				
	l management areas.				
FME response					
(including any evidence					
submitted)					
SCS review					
Status of CAR:					
_	Closed				
	Upgraded to Major				
	Other decision (refer to description above)				

5. Stakeholder Comments

In accordance with SCS protocols, consultation with key stakeholders is an integral component of the evaluation process. Stakeholder consultation takes place prior to, concurrent with, and following field evaluations. Distinct purposes of such consultation include:

- To solicit input from affected parties as to the strengths and weaknesses of the FME's management, relative to the standard, and the nature of the interaction between the company and the surrounding communities.
- To solicit input on whether the forest management operation has consulted with stakeholders regarding identifying any high conservation value forests (HCVFs).

Principal stakeholder groups are identified based upon results from past evaluations, lists of stakeholders from the FME under evaluation, and additional stakeholder contacts from other sources (e.g., chair of the regional FSC working group). The following types of groups and individuals were determined to be principal stakeholders in this evaluation:

5.1 Stakeholder Groups Consulted

Citizen Advisory Committee members	
	•

Stakeholder consultation activities are organized to give participants the opportunity to provide comments according to general categories of interest based on the three FSC chambers, as well as the SCS Interim Standard, if one was used. The table below summarizes the major comments received from stakeholders and the assessment team's response. Where a stakeholder comment has triggered a subsequent investigation during the evaluation, the corresponding follow-up action and conclusions from SCS are noted below.

5.2 Summary of Stakeholder Comments and Responses from the Team, Where Applicable

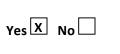
outreach activities during this annual audit. Stakeholder comments **SCS** Response **Economic concerns** None received. Social concerns I think that the amount of trails While the state forests have funding for new trails, funding for is too high. The animals need existing trails is somewhat limited and encumbered. In interviews areas where there are fewer with recreation staff, it was found that certain funds can be used to roads and trails. As a hunter, I permanently close trails, but only if new ones are created. See **OBS** find that you have better 2016.2. No non-conformance is warranted. chances the further away you get from the trail. Plus, the overall experience of being outside is greatly improved.

FME has not received any stakeholder comments from interested parties as a result of stakeholder

Environmental concerns				
The firewood harvest permits	On the Savage River 2016 Annual Work Plan, page 44, it states that a			
and guidelines should restrict	restriction on collecting firewood within 10 ft. from the edge of a			
collection in riparian zones.	stream will be incorporated into permits. Through an examination			
·	of the firewood cutting regulations for Savage River, it was found			
	that this was incorporated. FME managers from the other Western			
	Regional State Forests are discussing incorporating this restriction			
	into all firewood permits. No non-conformance is warranted.			
In the Kirk Orchard early	For use of Siberian crabapple, refer to OBS 2016.3 , which has not			
successional focus area, they are	been used for some time. Through a review of the <i>Kirk Orchard Unit</i>			
using Siberian crabapple and	Plan: Early Successional Wildlife Habitat Focus Area, it was found			
maintaining invasive species	that the plan addresses invasive species such as Autumn-olive,			
such as autumn olive.	multiflora rose, and Ailanthus among others. Specifically, the plan			
such as autumn onve.	states that efforts will be made to suppress and eradicate invasive			
There is too much emphasis on	species where practical over time.			
early successional habitat. With	species where practical over time.			
all of the development and	According to the EME's Representative Sample Area (RSA) analysis			
	According to the FME's Representative Sample Area (RSA) analysis, early successional habitat is lacking on the landscape. Since much of			
agriculture, there is plenty of	,			
early successional habitat.	the state lands are in protected parks and as much as two-thirds of			
	the state forests are not actively managed currently, the lack of early			
	successional habitat is supported by many stakeholders, including			
	hunting and conservation organizations. In regards to the increase			
	in pasture and cropland, according to other stakeholders			
	interviewed the quality of early successional habitat matters to the			
	animals that make use of these areas. The target species depend on			
	herbaceous plants, shrubs, and trees associated with early			
	successional habitat. One will not find the same diversity of flora or			
	fauna on an agricultural or pasture land. Given the overall support			
	from wildlife scientists and stakeholders on this subject, no non-			
	conformance is warranted.			
I am concerned about the	Due to inclement weather, it was not possible to interview any			
movement of machinery and the	logging contractors about this subject. However, during interviews			
spread of invasive species.	with FME's maintenance staff at multiple state forests, all staff			
	stated that they must power-wash equipment onsite before leaving			
	a location to avoid spreading invasive species. No non-conformance			
	is warranted.			
Conifers were likely present at	During interviews, FME staff confirmed their knowledge of historical			
much higher densities that they	forest composition and at much greater detail than is presented in			
are presently across the state	state forest management plans. See OBS 2016.4. No non-			
forests of the Western Region.	conformance is warranted.			

6. Certification Decision

The certificate holder has demonstrated continued overall conformance to the applicable Forest Stewardship Council standards. The SCS annual audit team recommends that the certificate be sustained, subject to subsequent annual audits and the FME's response to any open CARs. **Comments**:



7. Changes in Certification Scope

Any changes in the scope of the certification since the previous audit are highlighted in yellow in the tables below.

Name and Contact Information

Organization name	State of Maryland DNR – Forest Service					
Contact person	Jack Perdue					
Address	580 Taylor Ave, E1 Telephone 410-260-8505					
	Annapolis, MD 21401	Fax 410-260-8595				
		e-mail jack.perdue@maryland.gov				
	Website dnr.maryland.gov/forests					

FSC Sales Information

X FSC Sales contact information same as above.						
FSC salesperson						
Address		Telephone				
		Fax				
		e-mail				
		Website				

Scope of Certificate

Certificate Type		🖂 Si	ngle FMU	N	Aultiple FMU
		Group			
SLIMF (if applicable)		SI	mall SLIMF	Low intensity SLI	
		certif	icate	certif	ficate
		Group SLIMF certificate			
# Group Members (if app	licable)				
Number of FMU's in scop	e of certificate	1			
Geographic location of no	on-SLIMF FMU(s)	Latitu	ide & Longitude:		
Forest zone		🗌 Bo	oreal 🛛 Temperate		
		<u></u> ςι	ubtropical 🗌 Tropical		
Total forest area in scope of certificate which is:				Ur	nits: 🗌 ha or 🔀 ac
privately managed					
state managed		<mark>206,4</mark>	<mark>91 (2015)</mark>		
community managed					
Number of FMUs in scope that are:					
less than 100 ha in area		100 - 1000 ha in area			
1000 - 10 000 ha in area		more than 10 000 ha in area			
Total forest area in scope of certificate which is included in			in FMUs that:	ι	Jnits: 🗌 ha or 🗌 ac
are less than 100 ha in area					
are between 100 ha and 1000 ha in area					

meet the eligibility criteria as low intensity SLIMF FMUs
Division of FMUs into manageable units:
FME considers two forest regions based on regional forest types: Eastern and Western Regions. FME
then divides the state forest system into four geographic districts. Under each geographic district there
are state forests, which are then managed according to a state forest-level long-term management plan
and annual work plan. A full description of how the FMU is divided into manageable units is available
publicly via the FME's website: http://dnr.maryland.gov/forests/

Production Forests

Timber Forest Products	Units: 🗌 ha or 🔀 ac				
Total area of production forest (i.e. forest from which timber may be	135,101				
harvested)					
Area of production forest classified as 'plantation'					
Area of production forest regenerated primarily by replanting or by a					
combination of replanting and coppicing of the planted stems					
Area of production forest regenerated primarily by natural					
regeneration, or by a combination of natural regeneration and					
coppicing of the naturally regenerated stems					
Silvicultural system(s)	Area under type of				
	management				
Even-aged management					
Clearcut (clearcut size range 5.5 – 52 ac)					
Shelterwood					
Other:					
Uneven-aged management					
Individual tree selection					
Group selection					
Other:					
Other (e.g. nursery, recreation area, windbreak, bamboo, silvo-					
pastoral system, agro-forestry system, etc.)					
The sustainable rate of harvest (usually Annual Allowable Harvest or	2.4 mmbf under vol				
AAH where available) of commercial timber (m3 of round wood)	regulation, plus				
	780 ac under area regulation				
Non-timber Forest Products (NTFPs)					
Area of forest protected from commercial harvesting of timber and					
managed primarily for the production of NTFPs or services					
Other areas managed for NTFPs or services					
Approximate annual commercial production of non-timber forest					
products included in the scope of the certificate, by product type					
Explanation of the assumptions and reference to the data source upon v	which AAH and NTFP harvest				
rates estimates are based:					
See SFMP Chapter 5, Appendix H and CFI Summary for each State Forest. MD DNR uses Remsoft's					
Woodstock program to analyze forest inventory data to project sustainable harvest levels based on					

allowed silvicultural systems. Harvest rates are based on area control rather than volume control at this point in time. For example, the Green Ridge SFMP includes a description of the maximum number of acres that may be treated with variable retention harvests.

Appendix H includes a description of the assumptions behind the growth and yield modeling, including the elements of the indicator. Summaries of projected growth and allowable harvests based on growth rates, mortality, disease, etc. are included in Appendix H.

Species in scope of joint FM/COC certificate: Scientific/ Latin Name (Common/ Trade Name)

Acer rubrum; Acer spp.; Carya spp.; Celtis occidentalis; Fagus grandifolia; Fraxinus spp.; Juglans nigra L.; Liquidambar styraciflua L.; Liriodendron tulipifera L.; Nyssa sylvatica Marsh; Pinus echinata; Pinus taeda; Quercus alba; Quercus rubra; Tilia americana L; Tsuga canadensis (L.) Carr.; Ulmus spp.

FSC Product Classification

Timber products				
Product Level 1	Product Level 2	Species		
W1 Rough Wood	W1.1 Roundwood (logs)	All		
	W1.2 Fuel Wood			
	W1.3 Twigs			
W2 Wood charcoal				
W3 Wood in chips or	W3.1 Wood chips	All		
particles				

Conservation Areas

Total area of forest and non-forest land protected from commercial harvesting of timber and managed primarily for conservation115,659 acobjectives					
		vation Value Forest/ Areas			
High Conservation Values present and respective areas ac				Units: 🔄 l	na or 🖂
	Code	HCV Type	Descriptio	on & Location	Area
	HCV1	Forests or areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g. endemism, endangered species, refugia).	region; Ecologically	dlands - Eastern dlands - Western	15,226 16,656
	HCV2	Forests or areas containing globally, regionally or nationally significant large landscape level forests, contained within, or containing the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and			

		abundance.		
\boxtimes	HCV3	Forests or areas that are in or contain rare, threatened or endangered ecosystems.	Core FIDs habitat; core DFS habitat – Eastern region;	18,484 24,874
			old growth and old growth management – Western region	21,071
\square	HCV4	Forests or areas that provide basic services of nature in critical situations	Riparian Buffer Areas – Eastern region;	38,274
		(e.g. watershed protection, erosion control).	Riparian Buffer Areas – Western region	2,145
	HCV5	Forests or areas fundamental to meeting basic needs of local communities (e.g. subsistence, health).		
	HCV6	Forests or areas critical to local communities' traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities).		
Total Area of forest classified as 'High Conservation Value Forest/ Area'			71,984	

Areas Outside of the Scope of Certification (Partial Certification and Excision)

N/A – All forestland owned or managed by the applicant is included in the scope.				
Applicant owns and/or manage	es other FMUs not under evaluation			
Applicant wishes to excise port	ions of the FMU(s) under evaluation	n from the scope of certification.		
Explanation for exclusion of	These other state forests see very	little silvicultural activity and are		
FMUs and/or excision:	relatively small in acreage. We ha	ve no interest in pursuing		
	certification at this time on these	lands.		
Control measures to prevent	These additional properties are no	ot located near the areas included		
mixing of certified and non-	in the current or expanded certific	cation scope. Harvesting is very		
certified product (C8.3):	limited and usually for the purpose of salvage or demonstration.			
	These properties are not allowed to use the FSC certificate or			
	license codes.			
Description of FMUs excluded from	n or forested area excised from the	e scope of certification:		
Name of FMU or Stand	Location (city, state, country)	Size (ha or ac)		
Elk Neck State Forest	Northeast, MD, Cecil 3,380			
Cedarville State Forest	Brandywine, MD, Prince Georges 3,625			
Doncaster Demonstration Forest	Ironsides, MD, Charles 1,953			
Stoney Demonstration Forest	Aberdeen, MD, Harford 318			
Salem State Forest	Leonardtown, MD, St Mary's	837		

8. Annual Data Update

8.1 Social Information

Number of forest workers (including contractors) working in forest within scope of certificate				
(differentiated by gender):				
21 of male workers 9 of female workers				
Number of accidents in forest work since last audit: 1 Serious: 0 Fatal: 0				

8.2 Annual Summary of Pesticide and Other Chemical Use

	Maryland DNR Forest Service :: 2015-16 (over approx last 12 months)					
Forest	Commer cial name of pesticide / herbicide	Active ingredient	Quantity applied annually (kg or lbs.)	Size of area treated during previou s year (ha or ac)	Reason for use	
e.g. Savage River State Forest	Gly 4	Glyphosate	2 gal (2 % solution)	1 acre	Weed Control	
	Roundup Pro	Glyphosate	168 oz.	40 acres	ailanthus control cut treatment	
	Polaris	imazapyr 27.7%	273 oz.	43 acres	hickory control cut treatment	
Green Ridge State Forest	Mileston e	triisopropanolam monium salt of aminopyralid	197 oz	43 acres	VA pine control cut treatment	
	Gly 4	Glyphosate	5.3 oz active ingredient	.2 Acres	Invasive Species Control (Mile-a-minute weed)	
	Gly 4	Glyphosate	5.3 oz of active ingredient	.01 Acre	Invasive Species Control (Mile-a-minute weed)	
	Gly 4	Glyphosate	24 oz of active ingredient	1 Acre	Invasive Species Control (Japanese Knotweed)	
	Garlon 4	Triclopyr	12 oz of active ingredient	.2 Acres	Invasive Species Control (Mile-a-minute weed)	
Savage River State Forest	Arsenal AC	Imazapyr	45.1 oz active ingredient	60 Acres	Hardwood cut surface treatment (hack and squirt)	
	Arsenal AC	Imazypyr	4 oz. of 3%solution	2 Acres	Invasive Species Control (oriental bittersweet)	
Potomac Garrett	Gly 4	glyphosate	2 oz. of 50% solution	.01 Acre	Invasive Species Control (autumn olive)	
State Forest	Razor Pro	glyphosate	136 lb. active	68 Acres	competitive grass,	

			ingredient		sedge, dewberry
		sulfometuron	102 oz. active		competitive grass,
	Oust XP	methyl	ingredient	68 Acres	sedge, dewberry
	Arsenal		33.75 oz active		
	AC	Imazypyr	ingredient	45 Acres	competitive hardwood
	Arsenal		52.5 oz active		
	AC	Imazypyr	ingredient	70 Acres	competitive hardwood
	Arsenal		19.5 oz active		
	AC	Imazypyr	ingredient	26 Acres	competitive hardwood
			40 lb. active		spot treat competitive
	Razor Pro	glyphosate	ingredient	35 Acres	grass, sedge and fern
		sulfometuron	30 oz. active		spot treat competitive
	Oust XP	methyl	ingredient	35 Acres	grass, sedge and fern
					Aerial application of
				212.3	gum, maple & brush
	Arsenal	imazapyr	112.65 gallons	acre	control
Chesapeake	Oust	sulfometuron		212.3	Aerial application for
& Pocomoke	Extra	methyl	53.08 gallons	acre	grass control
					Invasive control, grass
Pocomoke	Makaze	Glyphosate	2.73 gallons	9.31 ac	control
Chesapeake				4.75	Invasive control, grass
& Pocomoke	Makaze	Glyphosate	4.2 gallons	acres	control

SECTION B – APPENDICES (CONFIDENTIAL)

Appendix 1 – List of FMUs Selected For Evaluation

X FME consists of a single FMU

FME consists of multiple FMUs or is a Group

Appendix 2 – List of Stakeholders Consulted

List of FME Staff and Stakeholders Consulted

2016 FSC/SFI Surveillance Audit April 26, 2016 - Savage River State Forest

Don VanHassent (DNR-MFS) Kenneth Jolly (DNR-MFS) Kip Powers (DNR-MFS) George Eberling (DNR-MFS) John Denning (DNR-MFS) Mark Beals (DNR-MFS) Mike Schofield (DNR-MFS) Alex Clark (DNR-MFS) Jack Perdue (DNR-MFS) Scott Campbell (DNR-MFS) Noah Rawe (DNR-MFS) Locho L Bayler (DNR) Jeramie Foy (DNR) Mel Rowe (DNR) Michael Johnson (DNR) Scott J Campbell (DNR) D. Haydn (DNR) C. Null (MPS) M.D Ford (NRO) Russell Leonard (CAC) Daryl Anthony (DNR-ODS) John F. Wilson (DNR-LAP) Steve Carr (DNR-LAP) Dan Rider (DNR-FS) Sunshine Brosi (CAC-FSU) Steven Green (CAC)

April 27, 2016 - Potomac Garrett State Forest

Don VanHassent (DNR-MFS) Kenneth Jolly (DNR-MFS) Kip Powers (DNR-MFS) George Eberling (DNR-MFS) John Denning (DNR-MFS) Mark Beals (DNR-MFS) Mike Schofield (DNR-MFS) Alex Clark (DNR-MFS) Jack Perdue (DNR-MFS) Scott Campbell (DNR-MFS) Noah Rawe (DNR-MFS) Jason Savage (DNR-MFS) Bo Sliger (DNR-MFS) John Wilson (DNR-LAP) Steve Carr (DNR-LAP) Eric Null (DNR-Parks) Mike Koser (CAC) Carl Lee (CAC) Bruce Taliaferro (CAC)

Don VanHassent (DNR-MFS) Kenneth Jolly (DNR-MFS) George Eberling (DNR-MFS) Jack Perdue (DNR-MFS) Rob Feldt (DNR-MFS) John Wilson (DNR-LAP) Steve Carr (DNR-LAP) Scott Campbell (DNR-MFS) John Denning (DNR-MFS) Noah Rawe (DNR-MFS) Mark Beals (DNR-MFS) Jesse Morgan (DNR-MFS) Pete Kelly (DNR-MFS) Devin Baker (DNR-MFS)

April 28, 2016 - Green Ridge State Forest

Appendix 3 – Additional Audit Techniques Employed

No additional audit techniques were employed.

Appendix 4 – Pesticide Derogations

X There are no active pesticide derogations for this FME.

Appendix 5 – Detailed Observations

Evaluation Year	FSC P&C Reviewed
2014	All – (Re)certification Evaluation
2015	1.3, 1.5, 1.6, 2.3, 3.1, 3.2, 3.4, 4.2, 4.4, 5.6, 6.2, 6.3, 6.5, 6.6, 6.9, 7.1, 7.2, 7.4, 8.2, 8.3 (COC indicators for FMEs) and 9.4
2016	1.1, 1.2, 1.4, 1.5, 2.3, 3.2, 4.1, 4.2, 4.3, 4.4, 4.5, 5.5, 5.6, 6.2, 6.3, 6.7, 6.8, 6.9, 6.10, 7.3, 8.2 and 9.4
2017	
2018	

C= *Conformance with Criterion or Indicator* NC= Nonconformance with Criterion or Indicator NA = Not Applicable NE = Not Evaluated

REQUIREMENT	C/NC	COMMENT/CAR
• • • • •	a laws of	the country in which they occur, and international tory, and comply with all FSC Principles and Criteria.
1.1 Forest management shall respect all	С	
national and local laws and administrative		
requirements.		
1.1.a Forest management plans and operations demonstrate compliance with all applicable federal, state, county, municipal, and tribal laws, and <i>administrative</i> <i>requirements</i> (e.g., regulations). Violations, outstanding complaints or investigations are provided to the <i>Certifying Body</i> (CB) during the annual audit.	C	 FME has a legal department, which verifies all contracts and land acquisitions. Timber sales must be approved by the Board of Public Works. There are several other departments and external agencies that evaluate FME for compliance to environmental, legal, and labor requirements. Forest managers also demonstrate knowledge of applicable laws and regulations, which they must take into account when preparing management plans. FME reported no new violations or complaints for 2016. Interviews with a variety of foresters, Natural Heritage biologists and Natural Resource Police and review of forest management plans and observations of management operations described elsewhere in this report confirm that this FME meets the requirements of laws and regulations including for example those related to the protection of rare species, implementation of BMPs and SMZs. FME staff reported no violations or investigations into alleged noncompliance with legal requirements. No stakeholders interviewed alleged any noncompliance. A review of complaints records at state forests visited in 2016. While most are similar, FME is in the process of reviewing them to ensure that their restrictions do not differ significantly between state forests. Specifically, a restriction on harvesting within riparian zones is likely to be added to all firewood permits and
		guidelines.
1.1.b To facilitate legal compliance, the forest	С	FME employees interviewed demonstrated working
owner or manager ensures that employees		knowledge of applicable laws, and are provided access to training certifications to cover legal
and contractors, commensurate with their		requirements (e.g., certified pesticide applicator,
responsibilities, are duly informed about		CDL). Logging contractors interviewed were Licensed

applicable lows and regulations		Forest Braduets Operators / Master Laggers
applicable laws and regulations.		Forest Products Operators/ Master Loggers. Contracts also make reference to applicable laws and
		regulations.
		Foresters inspect and supervise management
		activities and ensure that operations comply with
		laws, regulations and BMPs. For example, foresters
		continue to require by contract that timber harvest
		operators meet OSHA and other logging safety
		requirements. Interviews with employees and timber
		harvest operators; these Master Loggers receive continuing education associated with laws and
		regulations. Review of training records for PGSF and
		SRSF confirms that employees and contractors
		received training and understand laws and
		regulations that apply to forest management
		activities including for example chemical use, best
	_	management practices and rare species protection.
1.2. All applicable and legally prescribed fees,	С	
royalties, taxes and other charges shall be		
paid.		
1.2.a The forest owner or manager provides	С	According to interviews with the state forestry
written evidence that all applicable and legally		director, FME pays 25% of all timber sale revenue to
prescribed fees, royalties, taxes and other		the counties in which the state forests are located.
charges are being paid in a timely manner. If		Approximately 7% of timber sale revenue funds the
payment is beyond the control of the		DNR's secretary offices. Payments are listed w/in
landowner or manager, then there is evidence		Annual Work Plan budgets.
that every attempt at payment was made.		
1.3. In signatory countries, the provisions of	NE	
all binding international agreements such as		
CITES, ILO Conventions, ITTA, and Convention		
on Biological Diversity, shall be respected.		
1.4. Conflicts between laws, regulations and	С	
the FSC Principles and Criteria shall be		
evaluated for the purposes of certification, on		
a case by case basis, by the certifiers and the		
involved or affected parties.		
1.4.a. Situations in which compliance with	С	Certain chemical use which is allowed within US law
laws or regulations conflicts with compliance		but denied use by FSC has been an issue once, but
with FSC Principles, Criteria or Indicators are		was reported in the pesticide use report. Use has
documented and referred to the CB.		since been eliminated as an option. No other
		potential conflicts were reported in interviews with
		FME staff.
1.5. Forest management areas should be	С	

protected from illegal harvesting, settlement				
and other unauthorized activities.				
1.5.a. The forest owner or manager supports	С	FME has a department of Natural Resources Police		
or implements measures intended to prevent		(NRP) that regularly patrol state lands to prevent and		
illegal and unauthorized activities on the		detect unauthorized activities. In addition, FME gates roads and posts signage that cites applicable		
Forest Management Unit (FMU).		laws and regulations.		
1.5.b. If illegal or unauthorized activities occur,	С	According to interviews with staff, FME's NRP		
the forest owner or manager implements		prosecutes or fines violators. NRP also works with		
actions designed to curtail such activities and		local law enforcement to deal with more complex		
correct the situation to the extent possible for		situations involving illegal activities, such as marijuana operations. FME staff regularly clean up		
meeting all land management objectives with		dump sites to avoid attraction. FME staff reported no		
consideration of available resources.		major incidents of illegal or unauthorized activities.		
1.6. Forest managers shall demonstrate a	NE			
long-term commitment to adhere to the FSC				
Principles and Criteria.				
Principle #2: Long-term tenure and use rights to the land and forest resources shall be clearly defined,				
documented and legally established.	1			
2.1. Clear evidence of long-term forest use	NE			
rights to the land (e.g., land title, customary				
rights, or lease agreements) shall be				
demonstrated.				
2.2. Local communities with legal or	NE			
customary tenure or use rights shall maintain				
control, to the extent necessary to protect				
their rights or resources, over forest				
operations unless they delegate control with				
free and informed consent to other agencies.				
2.3. Appropriate mechanisms shall be	С			
employed to resolve disputes over tenure				
claims and use rights. The circumstances and				
status of any outstanding disputes will be				
explicitly considered in the certification				
evaluation. Disputes of substantial magnitude				
involving a significant number of interests will				
normally disqualify an operation from being				
certified.				
2.3.a If <i>disputes</i> arise regarding tenure claims	С	FME staff reported no new disputes over tenure		
or use rights then the forest owner or manager		claims or use rights. There are several cases that are		
initially attempts to resolve them through		open related to encroachment onto state forests		
open communication, negotiation, and/or		from adjacent landowners. Each state forest		
mediation. If these good-faith efforts fail, then		maintains its own records, but the land planning		

federal, state, and/or local laws are employed to resolve such disputes. office may become involved in reviewing records and survey information. FME's lawyers at headquarters review boundary disputes and encroachment, and take the final actions to resolve these issues. 2.3. The forest source or manager documents any significant disputes over tenure and use rights. C review boundary disputes and encroachment, and take the final actions to resolve these issues. Principle #3: The legal and customary rights of indigenous peoples to own, use and manage their lands, territories, and resources shall be recognized and respected. NE 3.1. Indigenous peoples shall control forest management on their lands and territories unless they delegate control with free and informed consent to other agencies. NE 3.2. During management planning, the forest binding agreements but HAW loavid harming their resources or rights. NA There are no tribal forest management or owner or manager consults with American sites of special tribal significance on the certified FMU. There are no tribs with legal rights or binding agreements to the FMU to avoid harming their resources or rights. NA 3.2. b Demonstrable actions are taken so that recognized and protecting by forest management plan. NA 3.3. Sites of special cultural, ecological, in cooperation with such peoples, and recognized and protected by forest managers. NE 3.4. Indigenous peoples shall be computed in cooperation with such peoples, and recognized and protected by forest managered upon with their free and informed consent before forest operations commence. NE </th <th></th> <th>1</th> <th>ffter were been in the dia and in the interview of the</th>		1	ffter were been in the dia and in the interview of the	
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and measures for, protecting tribal resources are incorporated in the management plan.FME staff reported that activities in 2015-16 did not affect any tribal issues.3.3. Sites of special cultural, ecological, economic or religious significance to indigenous peoples shall be clearly identified in cooperation with such peoples, and recognized and protected by forest managers.NE3.4. Indigenous peoples shall be compensated for the application of their traditional knowledge regarding the use of forest species or management systems in forest operations. This compensation shall be formally agreed upon with their free and informed consent before forest operations commence.NEPrinciple #4: Forest management operations shall maintain or enhance the long-term social and economic well-being of forest workers and local communities.C	forest management does not adversely affect			
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well-being of forest workers and local communities. 4.1. The communities within, or adjacent to, C	before forest operations commence.			
4.1. The communities within, or adjacent to, C				
		1		
the forest management area should be given		С		
	the torest management area should be given			

С	Short-term and long-term FME contractors are not considered FME employees. FME employees typically are salaried with benefits such as healthcare and retirement (pension or similar programs). See also 4.1.c.
C	FME employees have ample opportunities for continuing education or training. Training records were reviewed (maintained in personnel files on each state forest; First AID/CPR, fire, trail maintenance, SILVAH, pesticide applicator, first responder, regional conferences, CDL, chain saw, arborist, machine operation, etc.).
С	According to interviews with staff, DNR jobs are regionally higher paying than other jobs in the natural resource field, including those available in the private sector. The State of Maryland Human Resources (HR) department determines compensation scales for all State employees. HR maintains adherence to federal and state laws governing compensation, including salary determination (e.g., LSA of 1938).
С	FME has OSHA postings in all state forest offices. FME also participates in the state's non- discriminatory and affirmative action programs according to interviews with staff.
C	According to interviews with FME staff, almost all are from Maryland, West Virginia or Pennsylvania. Thus all can be considered local. FME must use the state's procurement system for contracting services and purchasing of goods, which gives preferential treatment to businesses located in Maryland. Qualified forest harvest contractors are petitioned to bid on local timber harvest operations. Operators must have a Forest Products Operators license and maintain Maryland Master Logger status. The State of Maryland maintains contracts for general services, such as office supplies, some of which are local.
	C C

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		locally if the state does not have a contract. Certain
		items are also procured through federal surplus,
		which is considered local to Maryland.
4.1.f Commensurate with the size and scale of	С	According to interviews with staff, FME participates
operation, the forest owner or manager		in forestry and trail tours with local heritage,
provides and/or supports learning		woodland, and naturalist groups. At some of the
opportunities to improve public understanding		trail areas, educational signage was observed. The
of forests and forest management.		Green Ridge forest manager is an adjunct professor
		at a local college and teaches several forest
		management courses.
4.1.g The forest owner or manager	С	See 4.1.f for education, which is a civic activity.
participates in local economic development		There is a camp for high school students interested
and/or civic activities, based on scale of		in natural resource careers according to interviews
operation and where such opportunities are		with staff. There are two juvenile detention centers
available.		that abut state forests in Western Maryland that are
		occasionally provided work on state forests. During
		the 2016 audit, a site was visited on which the
		employees of the contractor are citizens with special
		needs that conduct low-grade timber harvests and
		sell the resulting firewood on state campgrounds.
4.2. Forest management should meet or	С	
exceed all applicable laws and/or regulations		
covering health and safety of employees and		
their families.		
	6	
4.2.a The forest owner or manager meets or	С	FME reported no accidents or safety incidents since
exceeds all applicable laws and/or regulations		the last audit, and that there have been no changes
covering health and safety of employees and		to health & safety regulations or contract templates.
their families (also see Criterion 1.1).		OSHA postings were observed in all state forest
		offices. According to interviews with FME staff, all
		are aware of health and safety laws and receive
		regular training on the subject.
4.2.b The forest owner or manager and their	С	Items 15 (accident prevention), 16 (insurance) and
employees and contractors demonstrate a safe		19 (law applicable) of contracts address safety
work environment. Contracts or other written		requirements. See also staff training records
agreements include safety requirements.		reviewed in 4.2.a.
4.2.c The forest owner or manager hires well-	С	Through use of a competitive bidding system and use
qualified service providers to safely implement		of strict contracts that include logger licensing and
the management plan.		safety requirements, FME ensures that it uses
		qualified service providers. Evidence: contracts for all
		timber sales visited (first page of contract; example:
		Timber Sale Contract No. PG-01-15, p. 1).

4.3 The rights of workers to organize and	С	
voluntarily negotiate with their employers	C	
shall be guaranteed as outlined in		
Conventions 87 and 98 of the International		
Labor Organization (ILO).		
4.3.a Forest workers are free to associate with	с	Several positions are unionized per federal and state
other workers for the purpose of advocating	C	laws, and management has made no attempts to
for their own employment interests.		thwart this according to interviews with FME staff.
for their own employment interests.		In Maryland, there are approximately 30,000
		unionized state workers (Source: MD Department of
A 2 h. The forest sum on menores has	6	Budget and Management).
4.3.b The forest owner or manager has	С	FME staff maintain an open-door policy. Otherwise,
effective and culturally sensitive mechanisms		complaints may be filed with Human Resources that
to resolve disputes between workers and		follow a standard procedure for resolution.
management.		
4.4. Management planning and operations	С	
shall incorporate the results of evaluations of		
social impact. Consultations shall be		
maintained with people and groups (both		
men and women) directly affected by		
management operations.		
4.4.a The forest owner or manager	С	FME has reported that no significant activities
understands the likely social impacts of		related to social impacts assessment have occurred
management activities, and incorporates this		since the last audit. The Annual Work Plan and ID
understanding into management planning and		Team processes are robust examples of planning
operations. Social impacts include effects on:		efforts that allow for consideration of social impacts
 Archeological sites and sites of cultural, 		as described in this indicator. FME most recently
historical and community significance (on		updated its social impacts summary in response a
and off the FMU;		Minor CAR in 2014.
• Public resources, including air, water and		
food (hunting, fishing, collecting);		
• Aesthetics;		
Community goals for forest and natural		
resource use and protection such as		
employment, subsistence, recreation and		
health;		
Community economic opportunities;		
Other people who may be affected by		
management operations.		
A summary is available to the CB.		
A summary is available to the CB. 4.4.b The forest owner or manager seeks and	С	FME reported that few comments have been

considers input in management planning from		received from stakeholders since the last audit.
people who would likely be affected by		Most comments are received during the Annual
management activities.		Work Plan (AWP) review process from the Citizens
		Advisory Committees.
4.4.c People who are subject to direct adverse	С	The following procedure is similar for both annual
effects of management operations are	C	work plan and management plan; however, the most
apprised of relevant activities in advance of		frequently used means of seeking and considering
the action so that they may express concern.		input on an annual basis is the Public consultation
		process for AWP. The first draft is made by
		management staff, this is reviewed along with
		necessary field visits by DNR's internal
		interdisciplinary team, the revision is reviewed by
		the Citizen's Advisory Committee, and then it is put
		on the web for 30 day review period. A public
		announcement is distributed to every major news
		outlet in the State, plus Patch.com and several
		relevant blog sites.
4.4.d For <i>public forests,</i> consultation shall	С	See response to Minor CAR 2014.6 in the 2015
include the following components:		annual audit report. There has been no change since
1. Clearly defined and accessible methods for		the last audit.
public participation are provided in both		
long and short-term planning processes,		
including harvest plans and operational		
plans;		
2. Public notification is sufficient to allow		
interested stakeholders the chance to		
learn of upcoming opportunities for public		
review and/or comment on the proposed		
management;		
3. An accessible and affordable appeals		
process to planning decisions is available.		
Planning decisions incorporate the results of		
public consultation. All draft and final planning		
documents, and their supporting data, are		
made readily available to the public.		
4.5. Appropriate mechanisms shall be	С	
employed for resolving grievances and for		
providing fair compensation in the case of		
loss or damage affecting the legal or		
customary rights, property, resources, or		
livelihoods of local peoples. Measures shall		

be taken to avoid such loss or damage.		
4.5.a The forest owner or manager does not	С	FME staff and stakeholders interviewed did not
engage in negligent activities that cause		report any issues with negligent activities.
damage to other people.		
4.5.b The forest owner or manager provides a	С	Through an examination of complaints records and
known and accessible means for interested		interviews with FME staff, it was confirmed that the
stakeholders to voice grievances and have		FME provides a known and accessible means for
them resolved. If significant disputes arise		stakeholders to levy complaints.
related to resolving grievances and/or		FME has a policy available for receiving and
providing fair compensation, the forest owner		attending to grievances or complaints
or manager follows appropriate dispute		(http://www.dnr.state.md.us/forests/SFMGrievance
resolution procedures. At a minimum, the		Policy.pdf). The contact information is on the main
forest owner or manager maintains open		page for the Forest Service
communications, responds to grievances in a		(http://www.dnr.state.md.us/forests/mdforests.asp)
timely manner, demonstrates ongoing good		
faith efforts to resolve the grievances, and		
maintains records of legal suites and claims.		
4.5.c Fair compensation or reasonable	С	No cause for compensation or mitigation has been
mitigation is provided to local people,		reported on the part of FME or stakeholders. Any
communities or adjacent landowners for		compensation or mitigation would be managed by
substantiated damage or loss of income		the legal department.
caused by the landowner or manager.		
Principle #5: Forest management operations sh		urage the efficient use of the forest's multiple a wide range of environmental and social benefits.
5.1. Forest management should strive toward	NE	a while range of environmental and social benefits.
economic viability, while taking into account		
the full environmental, social, and		
operational costs of production, and ensuring		
the investments necessary to maintain the		
ecological productivity of the forest.		
5.2. Forest management and marketing	NE	
operations should encourage the optimal use		
and local processing of the forest's diversity		
of products.		
5.3. Forest management should minimize	NE	
waste associated with harvesting and on-site		
processing operations and avoid damage to		
Preserve of the state of a state		
other forest resources.		
	NE	
other forest resources.	NE	

С	
C	See content of Sustainable Forest Management Plan, and AWP ID Team & CAC review process. The zoning system within each State Forest includes water management areas for water quality and fisheries. Certain timber harvests are conducted for game species (e.g. ruffed grouse). Recreation, watersheds, hunting, and fishing are addressed in the SFMP and AWPs. Carbon storage and sequestration are not explicitly addressed in the management plan, but longer rotations (Eastern Region) and establishment of protected areas (Western Region) are compatible with this. Additionally, each state forest's SFMP addresses likely scenarios for forest types and management responses to climate change. Actions implemented in the field are consistent with maintaining and enhancing all of the associated forest services discussed in the indicator.
C	See 5.5.a. Timber harvests have riparian and protected areas delineated prior to implementation; the increase in non-managed area in the Western Region is consistent with greater carbon sequestration and watershed protection.
C	
С	 FME reported the following changes to its annual allowable harvest calculation: SRSF: We have been conducting an extensive forest inventory project for past 5 years. Initial inventory work has been completed on the harvestable areas of SRSF and the analysis of this data will be the basis for any changes that may be necessary in adjusting the annual allowable harvest rate. An updated analysis indicates harvest levels at about 1,200 mbf/yr CF-PSF: The annual allowable harvest rate was adjusted slightly up due to property acquisitions. PGSF: We have been conducting an extensive
	C C C

 mortality and decay and other factors that affect net growth; areas reserved from harvest or subject to harvest restrictions to meet other management goals; 	 inventory work is completed on PGSF and preliminary data analysis indicates that we should be cutting about 536,000 bf/yr GRSF: none
 silvicultural practices that will be employed on the FMU; management objectives and desired future conditions. The calculation is made by considering the effects of repeated prescribed harvests on the product/species and its ecosystem, as well as planned management treatments and projections of subsequent regrowth beyond single rotation and multiple re-entries. 	See SFMP Chapter 5, Appendix H and CFI Summary for each State Forest. FME uses Remsoft's Woodstock program to analyze forest inventory data to project sustainable harvest levels based on allowed silvicultural systems. Harvest rates are based on area control rather than volume control at this point in time. Appendix H includes a description of the assumptions behind the growth and yield modeling, including the elements of the indicator. Summaries of projected growth and allowable harvests based on growth rates, mortality, disease, etc. are included in Appendix H.
	In FME's response to Minor CAR 2015.1 (5.6.c), it completed an analysis of its effective productive area and determined that it was much less than originally estimated, which was causing the FME to appear to be behind in treating overstocked stands. Much of the area in the Western Region is not suitable to harvest due to access or lack of available harvesting equipment/ systems. In addition to reclassification of the productive area, FME also implemented a quarterly review process of timber sales in the Western Region. Both actions have greatly improved FME's ability to meet harvest scheduling and completion objectives.
5.6.b Average annual harvest levels, over rolling periods of no more than 10 years, do not exceed the calculated sustained yield harvest level.	 FME provided the following information on meeting its annual allowable harvest objectives: Savage River State Forest: See Appendix 3 in SRSF FY-2016 Annual Work Plan. Potomac Garrett State Forest: See Appendix 3 in PGSF FY-2016 Annual Work Plan. Green Ridge State Forest: The allowable harvest within the GRSF General Forest Area is to

		manage 200 acres for end of rotation
		regeneration harvests. We managed 197 acres
		since the last audit.
		Chesapeake / Pocomoke Forests: Clearcutting:
		145 ac.: Seed Tree/Shelterwood: 66.3 ac.:
		Thinning: 1,342.6 ac.
		Our maximum annual allowable cut is
		approximately 700 acres/year of clearcutting,
		seed tree, or shelterwood harvests. We are well
		below that level since the majority of the forest
		acreage is in younger age classes that are not
		suitable for final harvest operations.
		Each State Forest maintains an annual work plan
		summary to compare actual acres harvested versus
		projected (e.g.,
		http://www.dnr.state.md.us/forests/download/awp
		_summary.pdf). Harvest levels on an area control
		basis remain well below what is allowed per the
		Woodstock model.
5.6.c Rates and methods of timber harvest	С	In the Western Region, shelterwood, thinning,
lead to achieving desired conditions, and		clearcut, and variable retention harvests are used for
improve or maintain health and quality across		treating overstocked stands and controlling species
the FMU. Overstocked stands and stands that		composition to deal with gypsy moth outbreaks.
have been depleted or rendered to be below		
productive potential due to natural events,		AWP scouting done by the Forest Manager and
past management, or lack of management, are		Forester. Notes on future management activities,
returned to desired stocking levels and		such as silvicultural treatments or TSI, are
composition at the earliest practicable time as		incorporated into the forest GIS.
justified in management objectives.		
5.6.d For NTFPs, calculation of quantitative	NA	No NTFPs are harvested in significant commercial
sustained yield harvest levels is required only		operations.
in cases where products are harvested in		
significant commercial operations or where		Hunt leases are used only on the Chesapeake State
traditional or customary use rights may be		Forest. The meat acquired is not commercially sold
impacted by such harvests. In other situations,		and is not commercially significant.
the forest owner or manager utilizes available		
information, and new information that can be		
reasonably gathered, to set harvesting levels		
that will not result in a depletion of the non-		
timber growing stocks or other adverse effects		

to the forest ecosystem.			
Principle #6: Forest management shall conserve	e biologi	cal diversity and its associated values, water	
resources, soils, and unique and fragile ecosystems and landscapes, and, by so doing, maintain the ecological			
functions and the integrity of the forest.			
6.1. Assessments of environmental impacts	NE		
shall be completed appropriate to the scale,			
intensity of forest management and the			
uniqueness of the affected resources and			
adequately integrated into management			
systems. Assessments shall include landscape			
level considerations as well as the impacts of			
on-site processing facilities. Environmental			
impacts shall be assessed prior to			
commencement of site-disturbing operations.			
6.2 Safeguards shall exist which protect rare,	С		
threatened and endangered species and their			
habitats (e.g., nesting and feeding areas).			
Conservation zones and protection areas shall			
be established, appropriate to the scale and			
intensity of forest management and the			
uniqueness of the affected resources.			
Inappropriate hunting, fishing, trapping, and			
collecting shall be controlled.			
6.2.a If there is a likely presence of RTE species	С	FME reported that no new conservation zones were	
as identified in Indicator 6.1.a then either a		established since the last audit on any of the state	
field survey to verify the species' presence or		forests within the scope of certification.	
absence is conducted prior to site-disturbing			
management activities, or management occurs		On sites of mixed native and non-native conifer	
with the assumption that potential RTE species		species, the state-endangered Northern goshawk has	
are present.		begun nesting and using these areas as hunting cover	
		according to surveys by wildlife staff.	
Surveys are conducted by biologists with the			
appropriate expertise in the species of interest			
and with appropriate qualifications to conduct			
the surveys. If a species is determined to be			
present, its location should be reported to the			
manager of the appropriate database.			
6.2.b When RTE species are present or	С	Refer to individual Annual Work Plans (AWPs) and	
assumed to be present, modifications in		the management recommendations for each state	
management are made in order to maintain,		forest; all conservation zones and/or protected areas	
restore or enhance the extent, quality and		are shown on each project map.	
viability of the species and their habitats.			

Concornation zonos and/or protostad areas		Forest harvests have occurred in areas that are
Conservation zones and/or protected areas		
are established for RTE species, including		potential habitats for RTE species. All harvests must
those S3 species that are considered rare,		go through the annual work plan process. Heritage
where they are necessary to maintain or		assists the FME during planning and implementation
improve the short and long-term viability of		to ensure that the goals that they have for target
the species. Conservation measures are based		species are met. Each year FME includes a location
on relevant science, guidelines and/or		reporting form and information fact sheet along with
consultation with relevant, independent		its standard hunting harvest report forms to each of
experts as necessary to achieve the		the local hunt clubs regarding Delmarva Fox Squirrel
conservation goal of the Indicator.		on the Maryland short. Any forms that FME receives
		back are sent to US Fish & Wildlife, DNR Wildlife &
		Heritage, and kept on file at FME offices.
6.2.c For medium and large public forests (e.g.	С	The requirements of this section of the standard are
state forests), forest management plans and		primarily accomplished through the ID team process,
operations are designed to meet species'		which includes reviews of all plans by heritage,
recovery goals, as well as landscape level		wildlife, fisheries, and forestry staff. Harvest
biodiversity conservation goals.		operations and restoration projects are reviewed by
		Heritage members of the ID team. Restoration
		projects for specific sites are listed within each
		Annual Work Plan.
6.2.d Within the capacity of the forest owner	С	Refer to AWPs and the management
or manager, hunting, fishing, trapping,		recommendations as all ESAs are shown per project
collecting and other activities are controlled to		maps. See also information presented in 6.2.b on
avoid the risk of impacts to vulnerable species		hunting of game species (e.g., deer) within Delmarva
and communities (See Criterion 1.5).		Fox Squirrel habitat.
6.3. Ecological functions and values shall be	С	
maintained intact, enhanced, or restored,		
including: a) Forest regeneration and		
succession. b) Genetic, species, and		
ecosystem diversity. c) Natural cycles that		
affect the productivity of the forest		
ecosystem.		
6.3.a.1 The forest owner or manager	С	FME has reported the following for each state forest
maintains, enhances, and/or restores under-		within the scope for 2015-16:
represented <i>successional</i> stages in the FMU		• SRSF: The seedling/sapling succession stage of
that would naturally occur on the types of sites		our hardwood forests could be considered under-
found on the FMU. Where old growth of		represented. As such, management work planned
different community types that would		within the Annual Work Plans is generally
naturally occur on the forest are under-		focused on regeneration of hardwood forests and
represented in the landscape relative to		enhancing this stage of forest growth.
natural conditions, a portion of the forest is		• PGSF: We believe the seedling/sapling succession
	I	<u></u>

managed to enhance and/or restore old		stage of our hardwood forests, could be
growth characteristics.		considered under-represented. As such, mngt.
		work, planned within the AWPs is generally
		focused on regeneration of hardwood forests and
		enhancing this stage of forest growth.
		Distribution is approx.;(Forest wide/general mngt
) Seed/sap=6/10% ; poles=15/9%;
		sawtimber=80/75%
		GRSF: Heritage service completed vegetation
		management on approximately 20 acres of shale
		barrens to remove non-native woody vegetation
		and fire intolerant woody species to restore
		natural habitat.
		• CF-PSF: In conjunction with Wildlife & Heritage,
		we are harvesting and maintaining areas as early
		successional primarily with the use of fire. When
		appropriate, we plant species that are historically
		significant but currently underrepresented, such
		as shortleaf pine and Atlantic white cedar.
		See also discussion in 5.6.a on FME's response to
		Minor CAR 2015.1. These activities were confirmed
		via a review of AWPs, site-level plans, and field
		observation in the Western Region in 2016.
		See OBS 2016.1 .
6.3.a.2 When a <i>rare ecological community</i> is	С	FME demonstrates exceptional efforts to identify
present, modifications are made in both the		rare ecological communities for protection,
management plan and its implementation in		management and/or restoration. During harvests
order to maintain, restore or enhance the		visited in 2016, ESAs and other protected areas were
viability of the community. Based on the		noted on maps when adjacent or within timber sale
vulnerability of the existing community,		boundaries.
conservation zones and/or protected areas		
are established where warranted.		Critical habitats have been mapped for state listed or
		uncommon species, shale barrens communities, old
		growth and potential old growth, vernal pools and
		unique open habitats in state forest management
		plans. In most cases, these areas are not entered
		with equipment.
		According to interviews with staff, for early
		growth and potential old growth, vernal pools and unique open habitats in state forest management plans. In most cases, these areas are not entered with equipment.

		successional habitat that is not well-represented on the landscape, FME is attempting to coordinate more opportunities to combine timber sale and prescribed fire layout to reduce costs.
 6.3.a.3 When they are present, management maintains the area, structure, composition, and processes of all <i>Type 1</i> and <i>Type 2 old growth</i>. Type 1 and 2 old growth are also protected and buffered as necessary with conservation zones, unless an alternative plan is developed that provides greater overall protection of old growth values. Type 1 Old Growth is protected from harvesting and road construction. Type 1 old growth is also protected from other timber management activities, except as needed to maintain the ecological values associated with the stand, including old growth attributes (e.g., remove exotic species, conduct controlled burning, and thinning from below in dry forest types when and where restoration is appropriate). 	C	FME has reported that no activity has taken place in or near old-growth stands since the last audit. All old-growth stands near timber harvests reviewed in 2016 were well outside of the effective harvest area.
Type 2 Old Growth is protected from harvesting to the extent necessary to maintain the area, structures, and functions of the stand. Timber harvest in Type 2 old growth must maintain old growth structures, functions, and components including individual trees that function as refugia (see Indicator 6.3.g). On public lands, old growth is protected from harvesting, as well as from other timber management activities, except if needed to maintain the values associated with the stand (e.g., remove exotic species, conduct controlled burning, and thinning from below in		
controlled burning, and thinning from below in forest types when and where restoration is appropriate).		

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On American Indian lands, timber harvest may		
be permitted in Type 1 and Type 2 old growth		
in recognition of their sovereignty and unique		
ownership. Timber harvest is permitted in		
situations where:		
1. Old growth forests comprise a significant		
portion of the tribal ownership.		
2. A history of forest stewardship by the tribe		
exists.		
3. High Conservation Value Forest attributes		
are maintained.		
4. Old-growth structures are maintained.		
5. Conservation zones representative of old		
growth stands are established.		
6. Landscape level considerations are		
addressed.		
7. Rare species are protected.		
6.3.b To the extent feasible within the size of	с	The FME reported the following habitat and
the ownership, particularly on larger		ecosystem restoration activities since the last audit:
ownerships (generally tens of thousands or		• SRSF: All planned and completed timber harvests
more acres), management maintains,		include wildlife habitat improvement elements by
enhances, or restores habitat conditions		creating an increase in early succession habitat
suitable for well-distributed populations of		critical to a variety of species in need of
animal species that are characteristic of forest		conservation including Golden-wing Warblers,
ecosystems within the landscape.		American Woodcock, etc. Golden-wing Warbler
		Initiative Funded: A riparian buffer planting on
		4.6 acres of the newly acquired "Rounds Farm" in
		the Fairview Wildlife Habitat Unit to restore
		forestland in a pasture/hay field and provide a
		wooded corridor between the Bear Pen Wildlands
		and the headwaters of Bear Pen Run.
		 PGSF: A)-RGS Grant funded: Habitat
		improvements, to permanent grassy openings via
		planting a grass legume mix , lime and fertilizer
		to make these small openings as productive as
		possible for a variety of birds and animals that
		utilize these openings.
		• B) – "Feathered Edge Cut" around perimeter of
		wildlife food plot/ grassy opening on Snaggy
		Mountain Area.
		• <i>C)</i> – all planned and completed timber harvests

		 include wildlife habitat improvement elements, often leaning toward providing additional early succession habitat critical to a variety of species in need of conservation: including Gold winged Warblers, American Woodcock, etc. GRSF: Management activities were completed in the Anthony's Ridge SWHA and Kirk Orchard SWHA including seasonal mowing, field border cutbacks, regeneration harvests and partial harvests to enhance early succession wildlife habitat structure including timber harvests with retention based on Golden-winged warbler BMP. CF-PSF: Prescribed burning on various ESA restoration sites.
6.3.c Management maintains, enhances		
and/or restores the plant and wildlife habitat		The FME reported the following activities related to
		riparian management zones since the last audit: • SRSE: See AWP mans regarding HCVE blue line
of Riparian Management Zones (RMZs) to		Short. See NWT maps regarding new blac line
provide: a) habitat for aquatic species that breed in		streams/wetlands protection. Also, see SR-05-15
 a) habitat for aquatic species that breed in surrounding uplands; 		 temporary bridged stream crossing permitted
b) habitat for predominantly terrestrial		 by MDE. PGSE: See AWP mans re_HCVE blue line
species that breed in adjacent aquatic habitats;		streams/wetlands protection.
c) habitat for species that use riparian areas		GRSF: none
for feeding, cover, and travel;		CF-PSF: Burbage-Whiton Watershed
d) habitat for plant species associated with		Improvement Project; 227 Acres of restored
riparian areas; and,		floodplain.
e) stream shading and inputs of wood and		These activities were confirmed via a review of
leaf litter into the adjacent aquatic		AWPs, site-level plans, and field observation in the
ecosystem.		Western Region in 2016.
Stand-scale Indicators	С	The audit team observed several examples of
6.3.d Management practices maintain or		thinnings and regeneration harvests consistent with
enhance plant species composition,		this indicator in 2016. For example, richer sites that
distribution and frequency of occurrence		have been affected by gypsy moth received
similar to those that would naturally occur on		treatments to reduce oak density and favor a more
the site.		diverse species mix when this was possible. On
		variable retention harvests, dispersed and clumped

6.3.e When planting is required, a local source of known provenance is used when available and when the local source is equivalent in terms of quality, price and productivity. The use of non-local sources shall be justified, such as in situations where other management objectives (e.g. disease resistance or adapting to climate change) are best served by non-local sources. <i>Native species</i> suited to the site are normally selected for regeneration.	C	 retention of native pines, oak, maple, hickory, grape, and tulip-poplar was observed when site conditions were indicative of these species' likelihood for survival. For example, on Green Ridge State Forests the audit team observed retention of mid- and under-story sugar maple within a variable retention harvest intended to regenerate oak species. This area was determined to be a richer microsite within the harvest area due to the higher density of sugar maple present and was retained for species diversity. See OBS 2016.1. Seed mixes are determined by MD Department of Wildlife and addressed in timber harvest contracts (Attachment E; medium red clover, ladino clover, orchard grass, perennial rye grass, and timothy grass). The FME reported the following planting activities since the last audit: SRSF/ PGSF / GRSF: N/A – no planting has occurred. CF-PSF John S. Ayton State Tree Nursery (NOTE: local source, as confirmed via a review of AWPs, site-level plans, timber sale contracts, and field observation in the Western Region in 2016.
		See OBS 2016.1 .
6.3.f Management maintains, enhances, or restores habitat components and associated	С	The audit team observed retention of species throughout the diameter class and species groups.
stand structures, in abundance and		Larger, deformed or dying trees were selected for
distribution that could be expected from		snag recruitment. Snags and downed logs were also
naturally occurring processes. These		observable within retention clumps or as individuals.
components include:		Of note, FME pays special attention to the retention
a) large live trees, live trees with decay or		of grape vines on retained trees for both vertical and
declining health, <i>snags</i> , and well-		horizontal complexity. Grapes are also a source of
distributed coarse down and dead woody		soft-mast, especially within oak-dominated stands.
material. <i>Legacy trees</i> where present are		Especially within hardwood dominated sites, FME

not harvested; and		also retains conifers that are likely to survive until
b) vertical and horizontal complexity.		the next entry or serve as a seed source in the
Trees selected for <i>retention</i> are generally		regenerating stands.
representative of the dominant species found		
on the site.		
6.3.g.1 In the Southeast, Appalachia, Ozark-	С	The FME reported the following even-aged
Ouachita, Mississippi Alluvial Valley, and		management activities (NOTE: state forests are the
Pacific Coast Regions, when even-aged		Maryland shore are subject to SE restrictions, while
systems are employed, and during salvage		those in Western Maryland are subject to the
harvests, live trees and other native vegetation		Appalachian restrictions):
are retained within the harvest unit as		• SRSF: One 10.3 acre pine clear-cut variable
described in Appendix C for the applicable		retention harvest and 17-acre mature hardwood
region.		regeneration harvest that is partially harvested.
		Retention objectives for the projects were met;
In the Lake States Northeast, Rocky Mountain		with approximately 5% of the stand retained. In
and Southwest Regions, when even-aged		the case of the hardwood stand, approximately
silvicultural systems are employed, and during		2.5 acres of wetland/drains and associated
salvage harvests, live trees and other native		buffers were excluded from harvest. All other
vegetation are retained within the harvest unit		even – age work fell under shelterwood category;
in a proportion and configuration that is		these being 1st stage of 2 or 3 stage shelterwood
consistent with the characteristic natural		systems.
disturbance regime unless retention at a lower		 PGSF: Only one small 3 ac. clear cut was
level is necessary for the purposes of		contracted as part of the wildlife habitat / grassy
restoration or rehabilitation. See Appendix C		opening edge cuts. Retention objectives did not
for additional regional requirements and		apply due to small size of project. All other even –
guidance.		age work fell under shelterwood category; these
5		being 1st stage of 2 or 3 stage Shelterwood
		systems.
		 GRSF: All even-aged regeneration harvests
		carried out this year were completed under
		principles of variable retention.
		 CF-PSF:
		• WR40 Dunn Swamp Stand 3 & 20: 51.3
		ac.
		 P04 Dividing Creek T13 S7: 22 ac. D03 Nazarath Church T5 S14 & T6 S18;
		 PO2 Nazareth Church T5 S14 & T6 S18: 22.7 m
		22.7 ac.
		• PO2 Nazareth Church T4 S19: 16.6 ac.
		• <i>P05 Milburn Landing T16 S7: 32.8 ac.</i>
		• P04 Dividing Creek T13 S16: 15.7 ac.

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		• WR10 Cordery Stand 14: 16.7 ac.
		No issues with meeting downed dead woody
		debris retention objectives on any state forest.
		These activities were confirmed via a review of
		AWPs, site-level plans, timber sale contracts, and
		field observation in the Western Region in 2016.
6.3.g.2 Under very limited situations, the	NA	No exemptions to even-aged management
landowner or manager has the option to		restrictions associated with indicator 6.3.g.1 and its
develop a qualified plan to allow minor		applicable regional sub-indicators were detected
departure from the opening size limits		during field visits or review of management planning
described in Indicator 6.3.g.1. A qualified plan:		documentation.
1. Is developed by qualified experts in		
ecological and/or related fields (wildlife		
biology, hydrology, landscape ecology,		
forestry/silviculture).		
2. Is based on the totality of the <i>best</i>		
available information including peer-		
reviewed science regarding natural		
disturbance regimes for the FMU.		
3. Is spatially and temporally explicit and		
includes maps of proposed openings or		
areas.		
4. Demonstrates that the variations will		
result in equal or greater benefit to		
wildlife, water quality, and other values		
compared to the normal opening size		
limits, including for sensitive and rare		
species.		
5. Is reviewed by independent experts in		
wildlife biology, hydrology, and landscape		
ecology, to confirm the preceding		
findings.		
6.3.h The forest owner or manager assesses		The FME reported on the following invasive species
the risk of, prioritizes, and, as warranted,		control activities since the last audit:
develops and implements a strategy to		• SRSF: See attached maps and write ups for
prevent or control <i>invasive species</i> , including:		invasive control in AWP 17. These include both
1. a method to determine the extent of		plant and forest insect pest IPM activities.
invasive species and the degree of threat		• PGSF: Monitored 16 NNIS recorded occurrences /
to native species and ecosystems;		treated areas, addressed via our policy of Early
2. implementation of management practices		Detection-Rapid Response. Treated 2 of these

 that minimize the risk of invasive establishment, growth, and spread; aradication or control of established invasive populations when feasible: and, monitoring of control measures and management practices to assess their effectiveness in preventing or controlling invasive species. 	А	harvest treatments in stands that it was known to exist. CF-PSF: Approximately 14 acres were sprayed for invasive grasses using 2% or 6% concentrations of Glyphosate. hese activities were confirmed via a review of .WPs, site-level plans, and field observation in the
6.3.i In applicable situations, the forest owner or manager identifies and applies site-specific fuels management practices, based on: (1) natural fire regimes, (2) risk of wildfire, (3) potential economic losses, (4) public safety, and (5) applicable laws and regulations.	T c • • • T A fi F a	Vestern Region in 2016. he FME reported on the following fuels-reduction/ ontrol and prescribed fire activities: SRSF: Yes, a 10 acre wildfire in Compartment 51 and three prescribed burns for warm season grasses. PGSF: None GRSF: Approximately 10 acres prescribed fire for maintenance of warm season grass. No natural fires occurred. CF-PSF: Approximately 427 acres were burned for ESA management. There were no naturally occurring fires this year. hese activities were confirmed via a review of WPs, site-level plans, timber sale contracts, and eld observation in the Western Region in 2016. ME provided a summary of prescribed burn ctivities since the last audit, which was confirmed uring interviews with various staff members.
6.4. Representative samples of existing	NE	
ecosystems within the landscape shall be protected in their natural state and recorded		
on maps, appropriate to the scale and		
intensity of operations and the uniqueness of		
the affected resources.		
6.5 Written guidelines shall be prepared and	NE	
implemented to control erosion; minimize		
forest damage during harvesting, road		

construction, and all other mechanical		
disturbances; and to protect water resources.		
6.5.a The forest owner or manager has written	NE	
guidelines outlining conformance with the		
Indicators of this Criterion.		
6.5.b Forest operations meet or exceed Best	NE	
Management Practices (BMPs) that address		
components of the Criterion where the		
operation takes place.		
6.5.c Management activities including site	NE	
preparation, harvest prescriptions, techniques,		
timing, and equipment are selected and used		
to protect soil and water resources and to		
avoid erosion, landslides, and significant soil		
disturbance. Logging and other activities that		
significantly increase the risk of landslides are		
excluded in areas where risk of landslides is		
high. The following actions are addressed:		
Slash is concentrated only as much as		
necessary to achieve the goals of site		
preparation and the reduction of fuels to		
moderate or low levels of fire hazard.		
• Disturbance of topsoil is limited to the		
minimum necessary to achieve successful		
regeneration of species native to the site.		
 Rutting and compaction is minimized. 		
• Soil erosion is not accelerated.		
Burning is only done when consistent		
with natural disturbance regimes.		
Natural ground cover disturbance is		
minimized to the extent necessary to		
achieve regeneration objectives.		
Whole tree harvesting on any site over		
multiple rotations is only done when		
research indicates soil productivity will		
not be harmed.		
• Low impact equipment and technologies		
is used where appropriate.		
6.5.d The transportation system, including	С	See OBS 2016.2 .
design and placement of permanent and		
temporary haul roads, skid trails, recreational		

trails, water crossings and landings, is		
designed, constructed, maintained, and/or		
reconstructed to reduce short and long-term		
environmental impacts, habitat fragmentation,		
soil and water disturbance and cumulative		
adverse effects, while allowing for customary		
uses and use rights. This includes:		
 access to all roads and trails (temporary 		
and permanent), including recreational		
trails, and off-road travel, is controlled, as		
possible, to minimize ecological impacts;		
 road density is minimized; 		
• erosion is minimized;		
 sediment discharge to streams is 		
minimized;		
 there is free upstream and downstream 		
passage for aquatic organisms;		
 impacts of transportation systems on 		
wildlife habitat and migration corridors		
are minimized;		
• area converted to roads, landings and skid		
trails is minimized;		
 habitat fragmentation is minimized; 		
 unneeded roads are closed and 		
rehabilitated.		
6.5.e.1 In consultation with appropriate	NE	
expertise, the forest owner or manager		
implements written Streamside Management		
Zone (SMZ) buffer management guidelines		
that are adequate for preventing		
environmental impact, and include protecting		
and restoring water quality, hydrologic		
conditions in rivers and stream corridors,		
wetlands, vernal pools, seeps and springs, lake		
and pond shorelines, and other hydrologically		
sensitive areas. The guidelines include		
vegetative buffer widths and protection		
measures that are acceptable within those		
buffers.		
In the Appalachia, Ozark-Ouachita, Southeast,		

Mississiani Allunis IV/sllave Constants at Dealer		
Mississippi Alluvial Valley, Southwest, Rocky		
Mountain, and Pacific Coast regions, there are		
requirements for minimum SMZ widths and		
explicit limitations on the activities that can		
occur within those SMZs. These are outlined as		
requirements in Appendix E.		
6.5.e.2 Minor variations from the stated	NE	
minimum SMZ widths and layout for specific		
stream segments, wetlands and other water		
bodies are permitted in limited circumstances,		
provided the forest owner or manager		
demonstrates that the alternative		
configuration maintains the overall extent of		
the buffers and provides equivalent or greater		
environmental protection than FSC-US		
regional requirements for those stream		
segments, water quality, and aquatic species,		
based on site-specific conditions and the best		
available information. The forest owner or		
manager develops a written set of supporting		
information including a description of the		
riparian habitats and species addressed in the		
alternative configuration. The CB must verify		
that the variations meet these requirements,		
based on the input of an independent expert		
in aquatic ecology or closely related field.		
6.5.f Stream and wetland crossings are	NE	
avoided when possible. Unavoidable crossings		
are located and constructed to minimize		
impacts on water quality, hydrology, and		
fragmentation of <i>aquatic habitat.</i> Crossings do		
not impede the movement of aquatic species.		
Temporary crossings are restored to original		
hydrological conditions when operations are		
finished.		
6.5.g Recreation use on the FMU is managed	С	See OBS 2016.2 .
to avoid negative impacts to soils, water,		
plants, wildlife and wildlife habitats.		
6.5.h Grazing by domesticated animals is	NE	
controlled to protect in-stream habitats and		
water quality, the species composition and		

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viability of the riparian vegetation, and the		
banks of the stream channel from erosion.		
6.6. Management systems shall promote the	NE	
development and adoption of		
environmentally friendly non-chemical		
methods of pest management and strive to		
avoid the use of chemical pesticides. World		
Health Organization Type 1A and 1B and		
chlorinated hydrocarbon pesticides;		
pesticides that are persistent, toxic or whose		
derivatives remain biologically active and		
accumulate in the food chain beyond their		
intended use; as well as any pesticides		
banned by international agreement, shall be		
prohibited. If chemicals are used, proper		
equipment and training shall be provided to		
minimize health and environmental risks.		
6.7. Chemicals, containers, liquid and solid	С	
non-organic wastes including fuel and oil shall		
be disposed of in an environmentally		
appropriate manner at off-site locations.		
6.7.a The forest owner or manager, and	С	FME staff training records include prescribed fire and
employees and contractors, have the		pesticide application, both of which include topics on
equipment and training necessary to respond		spill containment according to interviews with staff.
to hazardous spills		
6.7.b In the event of a hazardous material	С	FME staff reported no recordable spills during the
spill, the forest owner or manager immediately		past two years. Due to inclement weather, no
contains the material and engages qualified		logging contractors were present for interview in the
personnel to perform the appropriate removal		field; however, logging equipment that was on job
and remediation, as required by applicable law		sites was inspected and no persistent leaks were
and regulations.		detected.
6.7.c. Hazardous materials and fuels are	С	According to interviews with staff, training on fuels
stored in leak-proof containers in designated		storage is included in prescribed fire and pesticide
storage areas, that are outside of riparian		applicator training. During field inspections, no fuel
management zones and away from other		or chemical containers were observed.
ecological sensitive features, until they are		
used or transported to an approved off-site		
location for disposal. There is no evidence of		
persistent fluid leaks from equipment or of		
recent groundwater or surface water		
contamination.		
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6.8. Use of biological control agents shall be	С	
documented, minimized, monitored, and	-	
strictly controlled in accordance with national		
laws and internationally accepted scientific		
protocols. Use of genetically modified		
organisms shall be prohibited.		
6.8.a Use of <i>biological control agents</i> are used	С	In cooperation with MD Department of Agriculture
only as part of a pest management strategy for		this FME uses <u>Bacillus thuringiensis</u> (BT) for gypsy
the control of invasive plants, <i>pathogens</i> ,		moth control. Because of its specificity, BT is
insects, or other animals when other pest		considered to have little or no effect on humans, wildlife or pollinators as well as most other beneficial
control methods are ineffective, or are		insects. A 2012 European regulatory peer review was
expected to be ineffective. Such use is		conducted on 5 approved strains of BT.
contingent upon peer-reviewed scientific		
evidence that the agents in question are non- invasive and are safe for native species.		Since 1999, MDA has released three different species of predatory black lady beetle for control of hemlock wooly adelgid (<i>Adelges tsugae</i>) including <i>Sasajiscymnus tsugae, Laricobius nigrinus</i> and <i>Scymnus sinuanodulas</i>) totaling 49,358 beetles in 27 locations in Harford, Baltimore, Frederick, Washington, Allegany and Garrett counties. Of the three species released, <i>Laricobius nigrinus</i> , a beetle native to western North America feeds only on woolly adelgid. The adult beetles lay eggs on wintering hemlock woolly adelgid larvae; when larvae emerge, they feed on hemlock woolly adelgid. L. nigrinus beetles can only complete their development by feeding on hemlock woolly adelgid. L nigrinus has already been established at seven of the 10 release sites. The other three sites are the most recent release locations and population levels have not met the requirements to be considered established. MDA will continue to release this species and monitor populations. The other two beetle species did not recover after release and are no longer part of the bio-control release program. A new species, <i>Laricobious osakensis</i> , has been used for the first time, finally clearing USDA-APHIS after 10-years of review. This beetle was released on Savage River State Forest, at the Poplar Lick site in November 2013. Recent release also occurred in
		late 2015. Current biological controls in the Eastern Region include a weevil for mile-a-minute. This use is regulated by the Maryland Department of

		Agriculture (MDA) in cooperation with USDA APHIS
		and the State Highway Administration (SHA) under
		accepted scientific rearing, release and monitoring protocols. More information is available through
		MDA: http://mda.maryland.gov and
		http://www.msa.md.gov/megafile/msa/speccol/sc53
		00/sc5339/000113/017000/017918/unrestricted/20
		<u>131937e.pdf.</u>
6.8.b If biological control agents are used, they	С	According to interviews with FME staff, control
are applied by trained workers using proper		agents are applied by trained MDA or SHA
equipment.		employees.
6.8.c If biological control agents are used, their	С	The use of biological control agents is well-
use shall be documented, monitored and		documented and monitored by USDA APHIS, and
strictly controlled in accordance with state and		MDA. See the websites mentioned in 6.8.a for the
national laws and internationally accepted		written protocols. See also USDA APHIS' website,
scientific protocols. A written plan will be		which references protocols for applying controls to
developed and implemented justifying such		several invasive pests, include mile-a-minute (e.g.,
use, describing the risks, specifying the		http://www.aphis.usda.gov/plant_health/plant_pest
precautions workers will employ to avoid or		_info/tcd/downloads/NationalResponseFramework.
minimize such risks, and describing how		pdf). See also MDA's specialty webpages, which
potential impacts will be monitored.		document the results of release and monitoring (e.g.,
		http://mda.maryland.gov/plants-
		pests/Pages/forest_pest_management.aspx).
6.8.d Genetically Modified Organisms (GMOs)	С	Interviews and document review confirm that there
are not used for any purpose		is no use of GMOs by MD DNR. In the Eastern
		Region, seed sources come from the State nursery,
		which sources seed and vegetative material from the
		region.
6.9. The use of exotic species shall be	С	
carefully controlled and actively monitored to		
avoid adverse ecological impacts.		
6.9.a The use of <i>exotic species</i> is contingent	С	No exotic species are used for commercial or
on the availability of credible scientific data		management purposes in the Eastern region. In the
indicating that any such species is non-invasive		Western Region, Norway Spruce, Red Pine and
and its application does not pose a risk to		Scotch Pine exist in legacy plantations that are being managed on a trajectory for restoration of mixed
native biodiversity.		native conifer and hardwood stands.
		See OBS 2016.3 .
6.9.b If exotic species are used, their	С	The Norway Spruce, Red Pine and Scotch Pine
provenance and the location of their use are		plantations were established several decades ago.
documented, and their ecological effects are		Norway Spruce and Scotch Pine are from Europe and
actively monitored.		Red Pine is from colder regions Eastern North America. No offsite regeneration is occurring and
		America. No onsite regeneration is occurring allu

semi-natural management. In most instances, this means that these excits opecies will be maintained, but within a matrix of native flora and fauna.6.9.c The forest owner or manager shall take timely action to curtail or significantly reduce any adverse impacts resulting from their use of exotic species.No adverse impacts have been detected from the exotic species mentioned in 6.9.a-b.6.10. Forest conversion to plantations or non- forest land uses shall not occur, except in circumstances where conversion: a) Entails a very limited portion of the forest management unit; and b) Does not occur on High Conservation Value Forest areas; and C) Will enable clear, substantial, additional, secure, long-term conservation benefits across the forest management unit.NA There has been no conversion; see evidence in C6.10.6.10.a Forest conversion to non-forest land uses does not occur, except in circumstances where conversion entails a very limited portion of the forest management unit (note that indicators 6.10.a, b, and c are related and all need to be conformed with for conversion to be allowed).NA There has been no conversion; see evidence in C6.10.6.10.c Forest conversion to non-forest land uses does not occur, except in circumstances where conversion to neal need to be conformed with for conversion to be allowed).NA There has been no conversion; see evidence in C6.10.6.10.c Forest conversion to high conservation value forest are related and all need to be conformed with for conversion to be allowed).NA There has been no conversion; see evidence in C6.10.6.10.c Forest conversion to be allowed).NA Choest to induce of the forest management unit (note that indicators 6.10.a, b, and c are related and all need			plans have been developed to restore these areas to
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converted to plantations. Degraded, semi- natural stands may be converted to restoration plantations.	conformed with for conversion to be allowed).		
natural stands may be converted to restoration plantations.	6.10.d Natural or semi-natural stands are not	NA	There has been no conversion; see evidence in
restoration plantations.	converted to plantations. Degraded, semi-		C6.10.
	natural stands may be converted to		
6.10.e Justification for land-use and stand-type NA There has been no conversion; see evidence in	restoration plantations.		
	6.10.e Justification for land-use and stand-type	NA	There has been no conversion; see evidence in

	nversions is fully described in the long-term		C6.10.
	nagement plan, and meets the biodiversity		
	nservation requirements of Criterion 6.3		
(se	e also Criterion 7.1.l)		
6.1	0.f Areas converted to <i>non-forest use</i> for	NA	There has been no conversion; see evidence in
fac	ilities associated with subsurface mineral		C6.10.
an	d gas rights transferred by prior owners, or		
otl	ner conversion outside the control of the		
ce	tificate holder, are identified on maps. The		
for	est owner or manager consults with the CB		
to	determine if removal of these areas from		
the	e scope of the certificate is warranted. To		
the	e extent allowed by these transferred rights,		
the	e forest owner or manager exercises control		
ov	er the location of surface disturbances in a		
ma	nner that minimizes adverse environmental		
an	d social impacts. If the certificate holder at		
on	e point held these rights, and then sold		
the	em, then subsequent conversion of forest to		
no	n-forest use would be subject to Indicator		
6.1	0.a-d.		
Dri			
FII	nciple #7: A management plan appropriate	e to the s	cale and intensity of the operations shall be
			cale and intensity of the operations shall be rm objectives of management, and the means of
wr acl	itten, implemented, and kept up to date. The nieving them, shall be clearly stated.	e long-te	
wr acl 7.1	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting		
wr acl 7.1	itten, implemented, and kept up to date. The nieving them, shall be clearly stated.	e long-te	
wr acl 7.1	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of	e long-te	
wr acl 7.1 do	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide:	e long-te	
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wr acl 7.1 do	itten, implemented, and kept up to date. The neving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed,	e long-te	
wr acl 7.1 do	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and	e long-te	
wr acl 7.1 do	itten, implemented, and kept up to date. The neving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic	e long-te	
wr acl 7.1 do	itten, implemented, and kept up to date. The neving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands.	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The neving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands.	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The neving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the ecology of the forest in question and	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The neving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the ecology of the forest in question and information gathered through resource	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the ecology of the forest in question and information gathered through resource inventories. d) Rationale for rate of	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the ecology of the forest in question and information gathered through resource inventories. d) Rationale for rate of annual harvest and species selection. e)	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the ecology of the forest in question and information gathered through resource inventories. d) Rationale for rate of annual harvest and species selection. e) Provisions for monitoring of forest growth	e long-te	
wr acl 7.1 do a.	itten, implemented, and kept up to date. The nieving them, shall be clearly stated. The management plan and supporting cuments shall provide: Management objectives. b) description of the forest resources to be managed, environmental limitations, land use and ownership status, socio-economic conditions, and a profile of adjacent lands. Description of silvicultural and/or other management system, based on the ecology of the forest in question and information gathered through resource inventories. d) Rationale for rate of annual harvest and species selection. e) Provisions for monitoring of forest growth and dynamics. f) Environmental	e long-te	

 identification and protection of rare, threatened and endangered species. b) h) Maps describing the forest resource base including protected areas, planned management activities and land ownership. i) Description and justification of harvesting techniques and equipment to be used. 		
7.1.a The management plan identifies the	NE	
ownership and legal status of the FMU and its resources, including rights held by the owner		
and rights held by others.		
7.1.b The management plan describes the	С	See OBS 2016.4 .
history of land use and past management,	C	366 003 2010.4 .
current forest types and associated		
development, size class and/or successional		
stages, and natural disturbance regimes that		
affect the FMU (see Indicator 6.1.a).		
7.1.c The management plan describes:	С	See OBS 2016.4 .
a) current conditions of the timber and non-		
timber forest resources being managed; b)		
desired future conditions; c) historical		
ecological conditions; and d) applicable		
management objectives and activities to move		
the FMU toward desired future conditions.		
7.1.d The management plan includes a	NE	
description of the landscape within which the		
FMU is located and describes how landscape-		
scale habitat elements described in Criterion		
6.3 will be addressed.		
7.1.e The management plan includes a	С	See OBS 2016.4 .
description of the following resources and		
outlines activities to conserve and/or protect:		
• rare, threatened, or endangered species		
and natural communities (see Criterion		
6.2);		
plant species and community diversity and		
wildlife habitats (see Criterion 6.3);		
• water resources (see Criterion 6.5);		
• soil resources (see Criterion 6.3);		

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Representative Sample Areas (see Criterion		
6.4);		
High Conservation Value Forests (see		
Principle 9);		
Other special management areas.		
7.1.f If invasive species are present, the	NE	
management plan describes invasive species		
conditions, applicable management objectives,		
and how they will be controlled (see Indicator		
6.3.j).		
7.1.g The management plan describes insects	NE	
and diseases, current or anticipated outbreaks		
on forest conditions and management goals,		
and how insects and diseases will be managed		
(see Criteria 6.6 and 6.8).		
7.1.h If chemicals are used, the plan describes	NE	
what is being used, applications, and how the		
management system conforms with Criterion		
6.6.		
7.1.i If biological controls are used, the	NE	
management plan describes what is being		
used, applications, and how the management		
system conforms with Criterion 6.8.		
7.1.j The management plan incorporates the	NE	
results of the evaluation of social impacts,		
including:		
• traditional cultural resources and rights of		
use (see Criterion 2.1);		
• potential conflicts with customary uses		
and use rights (see Criteria 2.2, 2.3, 3.2);		
 management of ceremonial, 		
archeological, and historic sites (see		
Criteria 3.3 and 4.5);		
management of aesthetic values (see		
Indicator 4.4.a);		
• public access to and use of the forest, and		
other recreation issues;		
local and regional socioeconomic		
conditions and economic opportunities,		
including creation and/or maintenance of		
quality jobs (see Indicators 4.1.b and		
 traditional cultural resources and rights of use (see Criterion 2.1); potential conflicts with customary uses and use rights (see Criteria 2.2, 2.3, 3.2); management of ceremonial, archeological, and historic sites (see Criteria 3.3 and 4.5); management of aesthetic values (see Indicator 4.4.a); public access to and use of the forest, and other recreation issues; local and regional socioeconomic conditions and economic opportunities, including creation and/or maintenance of 		

	T	[]
4.4.a), local purchasing opportunities (see		
Indicator 4.1.e), and participation in local		
development opportunities (see Indicator		
4.1.g).		
7.1.k The management plan describes the	NE	
general purpose, condition and maintenance		
needs of the transportation network (see		
Indicator 6.5.e).		
7.1.I The management plan describes the	NE	
silvicultural and other management systems		
used and how they will sustain, over the long		
term, forest ecosystems present on the FMU.		
7.1.m The management plan describes how	NE	
species selection and harvest rate calculations		
were developed to meet the requirements of		
Criterion 5.6.		
7.1.n The management plan includes a	NE	
description of monitoring procedures		
necessary to address the requirements of		
Criterion 8.2.		
7.1.0 The management plan includes maps	NE	
describing the resource base, the		
characteristics of general management zones,		
special management areas, and protected		
areas at a level of detail to achieve		
management objectives and protect sensitive		
sites.		
7.1.p The management plan describes and	NE	
justifies the types and sizes of harvesting		
machinery and techniques employed on the		
FMU to minimize or limit impacts to the		
resource.		
7.1.q Plans for harvesting and other significant	NE	
site-disturbing management activities required		
to carry out the management plan are		
prepared prior to implementation. Plans		
clearly describe the activity, the relationship to		
objectives, outcomes, any necessary		
environmental safeguards, health and safety		
measures, and include maps of adequate		
detail.		
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7 4 v The version and view describes the		
7.1.r The management plan describes the	NE	
stakeholder consultation process.		
7.2 The management plan shall be	NE	
periodically revised to incorporate the results		
of monitoring or new scientific and technical		
information, as well as to respond to		
changing environmental, social and economic		
circumstances.		
7.3 Forest workers shall receive adequate	С	
training and supervision to ensure proper		
implementation of the management plans.		
7.3.a Workers are qualified to properly	С	FME employees have ample opportunities for
implement the management plan; All forest		continuing education or training. Training records
workers are provided with sufficient guidance		were reviewed (maintained in personnel files on
and supervision to adequately implement their		each state forest; First AID/CPR, fire, trail
respective components of the plan.		maintenance, SILVAH, pesticide applicator, first
		responder, regional conferences, CDL, chain saw,
		arborist, machine operation, etc.). During interviews
		with staff such a forestry technicians, they stated
		that a qualified forester supervises all timber
		marking and provides them with guidance based on
		stand conditions.
7.4 While respecting the confidentiality of	NE	
information, forest managers shall make		
publicly available a summary of the primary		
elements of the management plan, including		
those listed in Criterion 7.1.		
	ppropria	ate to the scale and intensity of forest management
	••••	oducts, chain of custody, management activities and
their social and environmental impacts.	-	
8.1 The frequency and intensity of monitoring	NE	
should be determined by the scale and		
intensity of forest management operations,		
as well as, the relative complexity and		
fragility of the affected environment.		
Monitoring procedures should be consistent		
and replicable over time to allow comparison		
of results and assessment of change.		
8.2. Forest management should include the	С	
research and data collection needed to		
monitor, at a minimum, the following		
indicators: a) yield of all forest products		

harvested, b) growth rates, regeneration, and condition of the forest, c) composition and observed changes in the flora and fauna, d) environmental and social impacts of harvesting and other operations, and e) cost, productivity, and efficiency of forest management.		
8.2.a.1 For all commercially harvested products, an inventory system is maintained. The inventory system includes at a minimum: a) species, b) volumes, c) stocking, d) regeneration, and e) stand and forest composition and structure; and f) timber quality.	C	 FME reported the following inventory activities: SRSF: Completed 20% of the 5-year forest –wide forest inventory as planned in the "Harvestable Forest Area" completing this initial 5-year project. PGSF: Completed 20% of the 5-year forest –wide forest inventory as planned in the "Harvestable Forest Area" completing this initial 5-year project. GRSF: Completed 20% of the 5-year forest –wide forest inventory as planned in the "Harvestable Forest Area" completing this initial 5-year project. GRSF: Completed 20% of the 5-year forest –wide forest inventory as planned in the "Harvestable Forest Area" completing this initial 5-year project. CF-PSF: Continuous Forest Inventory (CFI), inventories performed pre- and post-harvest
		Through a review of inventory records on state forests, these activities were confirmed for the Western Region.
8.2.a.2 Significant, unanticipated removal or loss or increased vulnerability of forest resources is monitored and recorded. Recorded information shall include date and location of occurrence, description of disturbance, extent and severity of loss, and may be both quantitative and qualitative.	С	FME reported no recent timber theft during interviews with forest managers. No new major storm or disease events were reported in 2016.
8.2.b The forest owner or manager maintains records of harvested timber and NTFPs (volume and product and/or grade). Records must adequately ensure that the requirements under Criterion 5.6 are met.	C	 FME reported the following recent harvest yield: SRSF: FY-15 AWP contracts have sold 1,106,333 Board Feet and 1,203.5 cords. PGSF: FY-16 AWP contracts have sold 403,896 Bd. Ft. of timber to date, with an additional 138,638 Bd. Ft. marked and scheduled to be contracted by end of the FY for a contracted harvest of 542,534 Bd.Ft. (FY-16 AWP called for

 634,000 Bd. Ft., volume difference lost to field delineated buffer and protective areas.) GRSF: 617,155B sawtimber, 1777 cords pulpwood CF-PSF: 77,519 tons FME also provided quarterly timber sale reports for state forests in the western region, 2015-16. 8.2.c The forest owner or manager periodically obtains data needed to monitor presence on the FMU of: Nare, threatened and endangered species and/or habitat; Common and rare plant communities and/or habitat; Location, presence and abundance of invasive species; Condition of protected areas, set-asides and buffer zones; High Conservation Value Forests (see Criterion 9.4). 8.2.d.1 Monitoring is conducted to ensure that site specific plans and operations are properly implemented, environmental impacts of site disturbing operations are minimized, and that harvest prescriptions and guidelines are effective.
as ESAs remain un-entered.8.2.d.1 Monitoring is conducted to ensure that site specific plans and operations are properly implemented, environmental impacts of site disturbing operations are minimized, and that harvest prescriptions and guidelines areCTimber Sale Inspection forms are maintained for harvest monitoring visits and finalized at the end of harvest. FME staff reported that inspections take place on a weekly basis.
site specific plans and operations are properly implemented, environmental impacts of site disturbing operations are minimized, and that harvest prescriptions and guidelines are
implemented, environmental impacts of siteharvest. FME staff reported that inspections takedisturbing operations are minimized, and thatplace on a weekly basis.harvest prescriptions and guidelines are
disturbing operations are minimized, and that place on a weekly basis. harvest prescriptions and guidelines are
harvest prescriptions and guidelines are
ettective.
8.2.d.2 A monitoring program is in place to C A <i>Forest Roads Management For Forest Operations</i>
assess the condition and environmental <i>on Maryland State Forests</i> has been implemented.
impacts of the forest-road system. This policy creates a systematic inventory of the
State Forest roads including ORV trails. This plan
documents each road segment and drainage feature
in a GIS-based identification system and allows the
development of a priority plan for road maintenance and feature replacement that is incorporated into
and feature replacement that is incorporated into annual work plans for each state forest.
Since the last audit, FME has also implemented

		201E 2 which used an evaluation to close if the
		2015.3, which used an evaluation to classify the
		status of state forest roads under the FME's control
		and prioritize their maintenance.
8.2.d.3 The landowner or manager monitors	С	FME reported the following socioeconomic
relevant socio-economic issues (see Indicator		monitoring activities since the last audit:
4.4.a), including the social impacts of		• SRSF: Worked in conjunction with Garrett Trails
harvesting, participation in local economic		to examine the impact of bike trails on the forest.
opportunities (see Indicator 4.1.g), the		Five (5) trail counters have been installed
creation and/or maintenance of quality job		throughout the forest to monitor visitor numbers.
opportunities (see Indicator 4.1.b), and local		St. Johns Rock ORV Trail baseline environmental
purchasing opportunities (see Indicator 4.1.e).		assessment to determine impacts on
		plant/animal communities.
		• <i>PGSF: Visitor use / car counts conducted monthly</i>
		to monitor trends in general visitor use over time.
		• GRSF: none
		CF-PSF: trail counters have been installed
		throughout the forest to monitor visitor numbers
		and trail usage.
		Through interviews with CAC members and
		recreation staff, it was confirmed that FME conducts
		regular monitoring of social impacts during CAC
		meetings and coordination with recreation staff.
8.2.d.4 Stakeholder responses to management	С	At each state forest a complaints log is maintained.
activities are monitored and recorded as		This was examined and resolution to each comment
necessary.		is documented when the issue has been investigated
		and closed.
8.2.d.5 Where sites of cultural significance	NA	There are no such sites on the FMU. However, FME
exist, the opportunity to jointly monitor sites		offered this opportunity to Tribes participating in the
of cultural significance is offered to tribal		CAC. In addition, FME is cooperating with the MD
representatives (see Principle 3).		Commission of Indian Affairs. No changes were
		reported since the last audit.
8.2.e The forest owner or manager monitors	С	Cost and revenue is monitored as part of the AWP
the costs and revenues of management in		process. AMPs contain a summary of cost and revenue information. Each SF has its own
order to assess productivity and efficiency.	l	operational budget. Each SF maintains a spreadsheet
		and reports these to state offices in Annapolis.
		Accounting reviews all expenditures.
8.3 Documentation shall be provided by the	NE	
forest manager to enable monitoring and		
certifying organizations to trace each forest		
product from its origin, a process known as		
the "chain of custody."		
8.4 The results of monitoring shall be	NE	
or the results of monitoring shall be		

incorporated into the implementation and revision of the management plan.		
8.5 While respecting the confidentiality of	NE	
information, forest managers shall make		
publicly available a summary of the results of		
monitoring indicators, including those listed		
in Criterion 8.2.		

Principle #9: Management activities in high conservation value forests shall maintain or enhance the attributes which define such forests. Decisions regarding high conservation value forests shall always be considered in the context of a precautionary approach.

High Conservation Value Forests are those that possess one or more of the following attributes:

- a) Forest areas containing globally, regionally or nationally significant: concentrations of biodiversity values (e.g., endemism, endangered species, refugia); and/or large landscape level forests, contained within, or containing the management unit, where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance
- b) Forest areas that are in or contain rare, threatened or endangered ecosystems
- c) Forest areas that provide basic services of nature in critical situations (e.g., watershed protection, erosion control)
- d) Forest areas fundamental to meeting basic needs of local communities (e.g., subsistence, health) and/or critical to local communities' traditional cultural identity (areas of cultural, ecological, economic or religious significance identified in cooperation with such local communities).

9.1 Assessment to determine the presence of	NE	
the attributes consistent with High		
Conservation Value Forests will be		
completed, appropriate to scale and intensity		
of forest management.		
9.2 The consultative portion of the	NE	
certification process must place emphasis on		
the identified conservation attributes, and		
options for the maintenance thereof.		
9.3 The management plan shall include and	NE	
implement specific measures that ensure the		
maintenance and/or enhancement of the		
applicable conservation attributes consistent		
with the precautionary approach. These		
measures shall be specifically included in the		
publicly available management plan		
summary.		
9.4 Annual monitoring shall be conducted to	С	
assess the effectiveness of the measures		
employed to maintain or enhance the		
applicable conservation attributes.		
9.4.a The forest owner or manager monitors,	С	FME has only reported on activities related to the

or participates in a program to annually		management of significant concentrations of RTE
monitor, the status of the specific HCV		species, such as the Delmarva Fox Squirrel. While
attributes, including the effectiveness of the		many HCVs rely on passive management approaches,
measures employed for their maintenance or		heritage staff conducts annual reviews of these areas
enhancement. The monitoring program is		based on a sampling protocol.
designed and implemented consistent with the		
requirements of Principle 8.		
9.4.b When monitoring results indicate	С	FME has not reported any increasing risks to specific
increasing risk to a specific HCV attribute, the		HCV attributes under their control.
forest owner/manager re-evaluates the		
measures taken to maintain or enhance that		
attribute, and adjusts the management		
measures in an effort to reverse the trend.		

APPENDICES APPENDIX C: REGIONAL LIMITS AND OTHER GUIDELINES ON OPENING SIZES: Indicator 6.3.g.1 This Appendix contains regional Indicators and guidance pertinent to maximum opening sizes and other guidelines for determining size openings and retention. These Indicators are requirements based on FSC-US regional delineations APPALACHIA REGION

6.3.g.1.a When even-aged silviculture (e.g.,	С	See FME's summary under 6.3.g.1. All even-aged
seed tree, regular or irregular shelterwood), or		harvest openings larger than 11 acres have
deferment cutting is employed, live trees and		retention, even those classified as clearcuts. Most
native vegetation are retained and opening		even-aged management occurs under the variable
sizes are created within the harvest unit in a		retention and shelterwood systems.
proportion and configuration that is consistent		
with the characteristic natural disturbance		
regime in each community type, unless		
retention at a lower level is necessary for		
restoration or rehabilitation purposes. Harvest		
openings with no retention are limited to 10		
acres.		
Guidance: Even-age silviculture is used only		
where naturally occurring species are		
maintained or enhanced. Retention within		
harvest units can include riparian and		
streamside buffers and other special zones. In		
addition, desirable overstory and understory		
species may be retained outside of buffers or		
special zones while allowing for regeneration		
of shade-intolerant and intermediate species		

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consistent with overall management principals.		
Where stands have been degraded, less		
retention can be used to improve both		
merchantable and non-merchantable		
attributes.		
6.3.g.1.b When uneven age silvicultural	С	Where uneven-aged management is in use, canopy
techniques are used (e.g., individual tree		openings are less than 2.5 acres in size. A very small
selection or group selection), canopy openings		amount of the Western Region is under this type of
are less than 2.5 acres.		management.
Applicability note: Uneven age silvicultural		
techniques are used when they maintain or		
enhance the overall species richness and		
biologic diversity, regenerate-shade tolerant or		
intermediate-tolerant species, and/or provide		
small canopy openings to regenerate shade-		
intolerant and intermediate species. Uneven-		
age techniques are generally used to develop		
forests with at least three age classes. Uneven		
age silviculture is employed to prevent high-		
grading and/or diameter limit cutting.		
SOUTHEAST REGION		
6.3.g.1.a Primary and natural forests: clear-	NE	
cutting is not allowed. Harvesting is not		
allowed at all in <i>primary forests</i> .		
Semi-natural forests: stands with trees greater		
than 100 years old: clear-cutting is not		
allowed; even-aged stands of hardwood and		
cypress: clear-cutting is allowed; the size of		
openings should be conservative.		
Even-aged stands of pine and pine/hardwood:		
clear-cutting is allowed; the size of openings		
should not be higher than the limit for		
plantations and should be justified by natural		
regeneration requirements.		
Clear-cuts up to 80 acres are allowed in cases		
where a 40-acre stand would not provide		
enough timber volume to secure an		
economically operable timber sale, meaning		

that the sale would not attract a buyer and/or	
the landowner would not make a profit from	
the sale. Examples of such cases include stands	
that have been high graded and the most	
valuable species of trees have already been	
removed, or where a site has been planted	
with inappropriate, poorly growing species and	
the landowner/manager wants to clear and	
restore the site. This exception cannot be used	
when a 40-acre clearcut would be	
economically operable and a landowner wants	
to cut 80 acres simply to make a greater profit.	
Clearcuts up to 80 acres are allowed in cases	
where harvesting a stand in 40 acre blocks	
would cause unnecessary environmental	
disturbance to the area surrounding the stand.	
An exception to all of the limits on the use and	
size of clearcuts can be made in cases of	
ecologic necessity. Clearcutting may be used in	
natural forest standswhere appropriate and	
necessaryas a tool for maintaining	
ecosystems that are dependent on large,	
contiguous openings. An example is the sand	
pine scrub ecosystem, which supports the	
ecologically significant Florida scrub jay and is	
currently being managed with large,	
contiguous clear-cuts. Ecologists urge the use	
of large clearcuts in the sand pine scrub	
ecosystem to mimic the stand-replacing,	
catastrophic fires that historically maintained	
the ecosystem. This exception may only be	
used when supported by scientific literature.	

Appendix 6 – Chain of Custody Indicators for FMEs

 \fbox Chain of Custody indicators were not evaluated during this annual audit.