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Implementation of Fire Management Voluntary Guidelines for Industrial Fiber Plantations

A Presentation to
Asia-Pacific Forestry Week
 Fire Management Voluntary Guidelines - Implementation
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Brad Sanders
 APRIL FiberOne

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About APRIL

- Leading developer of fiber plantations & manufacturers of pulp & paper
- **Strategy:** Manage resources to meet conservation, social and economic needs for today's society without compromising future generations
- Based in Riau, Sumatra since 1993
- 298,000 ha fiber plantation
- 250,000 ha of conservation forest
- 9.0 million tons wood / year
- 2.5 million tons pulp / year
- 0.75 million tons paper / year

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Sustainable Reforestation

Manage forest resources as sustainable plantations to balance environmental, social & economic development needs

- **Planet:** Conserving biodiversity and preventing environmental degradation
- **People:** Providing opportunities for social development & poverty alleviation
- **Profit:** Ensuring a steady supply of renewable high-quality raw material

Balancing all three imperatives is key to long-term survival & success

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Mosaic Plantation Concept

Natural Forest HCV	Degraded Natural Forest Non-HCV	Scrubland Non-HCV
Protected by Mosaic	Reforested	Reforested

Mosaic Plantations form healthy & vigorous landscapes to:

1. Conserve biodiversity
2. Provide ecosystem services
3. Create wealth for the society

Fire Threat

- Community land-clearing fires adjacent to remote perimeter boundaries remain the greatest fire threat to Riau fiber plantations.

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APRIL's Fire Management Program

- 1. No-burn policy since 1994**
 - Only use mechanical methods to clear & prepare land
- 2. Fire Prevention**
 - Community Development & Fiber Farms
 - Contract requirements
 - Information / education & awareness
- 3. Rapid Response**
 - Fire suppression objectives & SOP's
 - Active monitoring & early detection
 - Firefighting tools, transport & personnel training
 - Natural forest greenbelt system


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Forest Protection Department

Fire & Aviation Management	Environment	Occupational Health & Safety
<p>One Head Office 8x Coordinating Staff Warehouse & Fire Equipment 1x Helicopter AS350B2 1x Air Tractor 602 1x 12 pax Airboat</p> <p>(Nine) Fiber Estates 8 Staff / Estate 1x Patrol vehicle & speedboat Warehouse/office Firefighting equipment Contractor Heavy Equipment Primary Fire Team (20) Backup Fire Team (15)</p>	 	

Implementation Actions 2007 Results

- 148 fires (66 peat)
- 138 ha burned (57 ha peat)
- Average size fire is 0.9 ha
- 99% of fires were fully extinguished within 3 days from initial attack
- 99% of fires extinguished at less than 10 ha
- 74% of fires extinguished at less than 1 ha
- Cooperation with local government



4.15 Monitoring & Assessment

Riaufiber
Fire, Safety & Aviation Department

Fire Management Historical Data

Year	Total Number of Fires	AREA BURNED			Average (Ha)	Number of Fires 10+ Ha	Performance %
		Planted (Ha)	Un-planted (Ha)	Total (Ha)			
2002	66	110	197	307	4.7	7	89%
2003	76	277	328	605	8.0	8	89%
2004	128	113	239	353	2.8	7	94%
2005	178	2,601	1,022	3,623	20.4	25	82%
2006	194	301	240	540	2.8	11	94%
2007	148	39	98	138	0.9	2	99%
TOTAL	790	3,441	2,124	5,566	7.0	60	92%

132 Average number of fires / year
 928 Ha - Average hectares burned / year
 7.0 Ha - Average size fire
 10 Average number of large fires/year (10+ ha)
 92% % of fires less than 10 hectares

Average less than 2% of total planted area burned / year

Implementation Benefits of Guidelines

- International recognition for following the Voluntary Guidelines
- Established standard to base all fire management activities & cooperation
- Consistency with other agencies / institutions (national & international)
- Shared terminology in fire management principles from which to compare with other institutions
- Educational reference for managers and staff



What has APRIL's experience been in implementing the Guidelines

- APRIL joined FM Actions Alliance in May 2007 (first private land management company)
- Supports sustainable land management practices and APRIL's mosaic plantation concept
- Strategies & Principles are applicable for both peatland and mineral fire management concerns
- Provides public acceptance & credibility of APRIL's commitment to "No Burning" and effective fire prevention & suppression program
- Numerous government requests to assist with fire suppression efforts outside of plantation areas
- Collaborated with Ministry of Forestry Indonesia to adopt the Guidelines
- Translated the Guidelines to bahasa Indonesia
- Joint promotion of fire management development & actions in Indonesia at International venues (eg. MoF at Bali Climate Conference)
- APRIL collaboration with Singapore NEA to assess fire management capabilities in Muaro Jambi Regency, Sumatra

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Message to other companies considering implementation of the Guidelines

The UN-FAO Fire Management Guidelines:

1. Consolidates the knowledge & experience of FM professionals world-wide
2. Provide a solid and credible foundation from which to begin establishing a fire management organization
3. Creates a checklist of proven FM principles, concepts and techniques to ensure a comprehensive Fire Management program can be developed.
4. Serves as the basis for an internal monitoring tool during the maturing phases of the fire management institution
5. Provides valuable background rationale for justifying fire management budgets and expenditures
6. Provides list of fundamental fire references, background for ICS, template for cooperation agreements & glossary of fire terminology



