Implementing force majeure

Informal presentation by Australia and Canada

Tianjin, October 7 2010

Outline of presentation

Steps for implementing force majeure

Hypothetical example using wildfire to illustrate implementation

Steps for implementing force majeure Does force majeure apply?

- Step 1 Identify the lands affected by natural disturbances in a given year of the commitment period
- Step 2 Calculate the total emissions from natural disturbances for that year.
- **Step 3** If the total emissions exceed the threshold, then these natural disturbances classify as *force majeure*.

Steps for implementing force majeure Threshold met, what next?

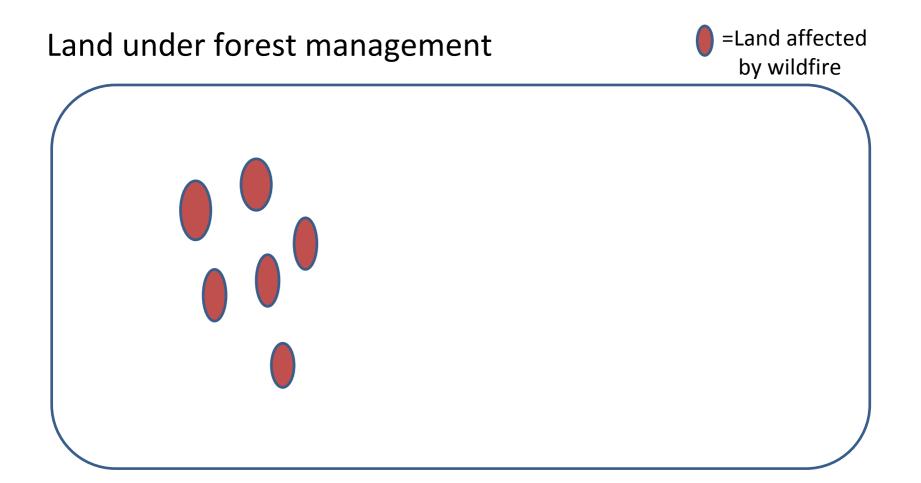
• **Step 4** – Can the information requirements be met? (*This will be subject to current reporting and review processes.*)

• **Step 5** – **If yes**, the *force majeure* provision can be applied and the total force majeure emissions can be excluded from the accounting (these emissions will continue to be reported).

Steps for implementing force majeure Ongoing requirements

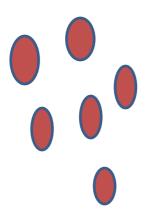
- Step 6 The areas affected by force majeure in the year continue to be monitored over time to report the emissions and removals and to show no land use change, salvage or harvesting have occurred.
- Step 7 When the removals (CO₂) balance the CO₂ emissions from the *force majeure* events, any subsequent removals on the lands would come into the accounting.

Assume country A has had a series of wildfires in a year in the commitment period on land under forest management (there are no other disturbances in that year)



Step 2 - Calculate the total emissions from the natural disturbances for that year

Land under forest management = source of 50 CO_2 -e for that year (including the impact of management and fires)



Wildfire emissions = 70 CO_2 -e (60 CO_2 , 10 non-CO_2)

Net removals on forest management lands not affected by wildfire = 20 CO₂

Total forest management net emissions for year = 50 CO_2 -e

Step 3 – If the total CO_2 -e emissions exceed the threshold, then these natural disturbances classify as force majeure.

The negotiations will have defined the X% threshold.

If we assume, in this hypothetical example, that the % threshold for the country is equivalent to 25, then the threshold has been exceeded in the year because the emissions from wildfires were 70.

Step 4 – Can the information requirements be met? (This will be subject to current reporting and review processes)

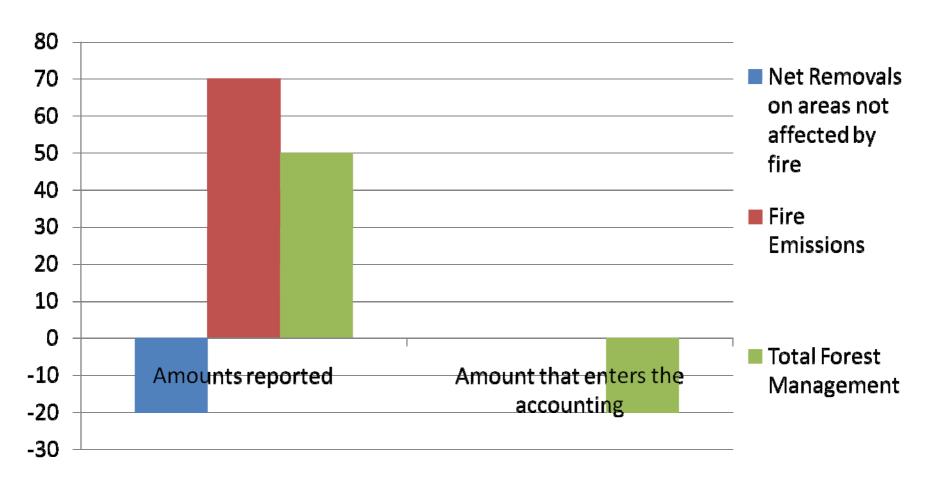
Through its national greenhouse gas inventory report, the Party would provide information, including:

- -Showing geo-referenced locations of the affected lands
- -Showing that no land use change has occurred on the lands following the fires
- -Showing that emissions from salvage were not excluded.
- -Demonstrating that the fires were beyond the control of and not materially influenced by the Party.

Hypothetical example: showing "beyond the control of"

- Describe any weather conditions that contributed to the fires (e.g. strong winds, high heat, low humidity, dry).
- Describe efforts to undertake fire suppression.
- Provide scientific evidence regarding the causes and/or characteristics of the fires.

Because the *force majeure* provision can be used, emissions of 70 CO_2 -e are reported but excluded from accounting.

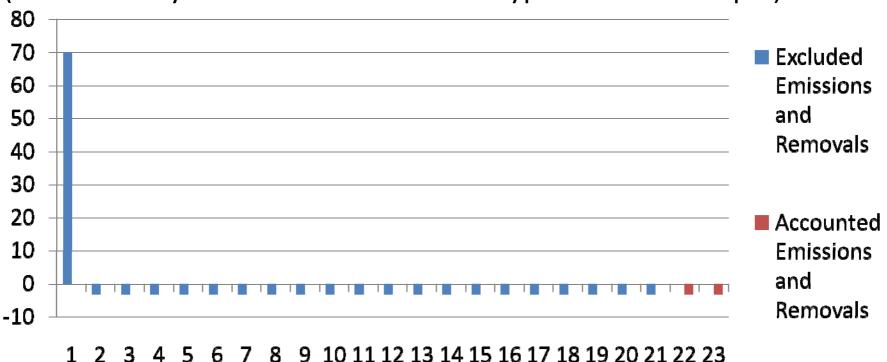


Step 6 – The areas affected by fire in the year continue to be monitored to report the emissions and removals and to show no land use change, salvage or harvesting over time.

The Party would need to ensure their monitoring and reporting systems can track what is occurring on the lands through time.

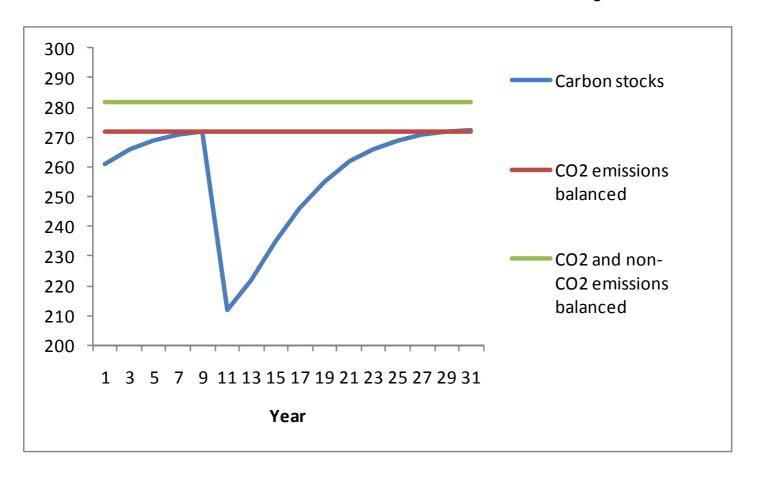
Assume, in this hypothetical example, that the burned areas regrow at $3 CO_2$ per year.

Once CO_2 removals balance CO_2 emissions excluded (60 CO_2), the subsequent removals on the land are brought into the accounting (i.e. after 20 years of removals in this hypothetical example)



Year

Example of recovery from a fire in a forest near maturity



Fire in year 9, with emissions of 60 CO_2 and 10 non- CO_2 . Carbon stocks recovered in 20 years.

CO₂ removals will never equal CO₂ and non-CO₂ emissions.

Force Majeure: Consistency with forest management reference level

Consistency is important to avoid unearned credits or debits, as a result of force majeure being treated differently between the reference level and the commitment period.