



FFT RESULTS Field Data Capture Standard

Effective May 30, 2008

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1.0 APPLICATION

This standard specifies mandatory data elements to be loaded into RESULTS from wildfire and mountain pine beetle (MPB) affected areas funded under the *Forest for Tomorrow* (FFT) program. This standard does not include instructions for how to use RESULTS, or mapping and survey standards.

A "user" is defined as a person employed by a Recipient or the Ministry of Forests and Range to load data into RESULTS.

This standard is to be used in conjunction with [Results Information Submission Specifications – Government Funded Silviculture Activities](#).

2.0 OPTIONS FOR LOADING DATA TO RESULTS

2.1 Recipients may:

- (a) Load the data directly into RESULTS themselves; or
- (b) Secure qualified service providers to load the data into RESULTS on their behalf. A partial list of service providers is at www.for.gov.bc.ca/his/esd/ServiceProviders.pdf

2.2 Regardless of whether a recipient loads the data into RESULTS directly or uses a service provider, the requirements of this standard apply.

2.3 Two methods may be used to load data into RESULTS, depending on the information:

- (a) Direct (text only) entry in the RESULTS application (<http://extranet7.for.gov.bc.ca/results/>); or

- (b) Uploading a properly formatted (text and spatial) submission document through the Electronic Submission Framework (ESF) to RESULTS (<http://extranet7.for.gov.bc.ca/esf/submissionWelcome.do>).

3.0 ACCESS AND AUTHORIZATION TO BC GOVERNMENT SYSTEMS

- 3.1 Depending on the method used to load data to RESULTS, Recipients (or service providers working on their behalf) require access to RESULTS and/or ESF.
- 3.2 RESULTS and ESF systems can be accessed by authorized users with either BCeID or IDIR accounts.
- (a) BCeID – an online service for private sector clients to securely access any BCeID-participating British Columbia government web site.
 - i. See <https://www.bceid.ca/>.
 - ii. The BCeID does not allow user to create an opening
 - (b) IDIR – an information directory domain for ministry employees to securely access British Columbia government systems. IDIR accounts can be issued to users not directly employed by the ministry (e.g., contractors) under the conditions that the IDIR account is never used by anyone other than the person to whom it is issued.
 - i. See <http://forestsfortomorrow.ca/DataAndApplications/IDIRaccounts/IDIRaccounts.html>
- 3.3 Both ESF and RESULTS have various authority levels that allow a user to perform certain activities.
- (a) Where a user (or service provider) does not have authorization to access and update RESULTS data as required, the client is required to follow procedures on the RESULTS web page <http://www.for.gov.bc.ca/his/results/accesssx.htm>.
 - (b) Where a user (or service provider) does not have authorization to upload data to RESULTS through the ESF as required, the client is required to follow procedures on the RESULTS web page <http://www.for.gov.bc.ca/his/results/accesssx.htm>.
 - (c) Only users with IDIR accounts can create new opening definitions.

4.0 LOADING DATA DIRECTLY IN THE RESULTS APPLICATION

- 4.1 Anyone who loads data directly to RESULTS must have the necessary authority, qualifications and training.
- (a) Users (or service providers) must be trained in the use of this software.
 - (b) The ministry is not responsible for putting users through RESULTS training.
 - (c) The ministry provides assistance to users who encounter difficulties through the Application Help Desk Service

Phone: (250) 387-8888 Email: FORHISP.APPHELP@gov.bc.ca

5.0 LOADING DATA THROUGH THE ESF

5.1 Data is submitted to RESULTS through the ESF by uploading an XML and/or GML document that adheres to the ministry data schema requirements (http://www.for.gov.bc.ca/his/esf/index_ressub.htm). Specialised software is required to generate the XML and GML documents.

- (a) Users (or service providers) must be trained in the use of this software.
- (b) The ministry is not responsible for putting users through training.
- (c) The ministry provides assistance to users who encounter difficulties through the Application Help Desk Service

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6.0 DATA CAPTURE REQUIREMENTS

6.1 Data loaded into RESULTS must follow submission requirements in the [RESULTS INFORMATION SUBMISSION SPECIFICATIONS Government Funded Silviculture Activities](#).

- i. The above noted specifications describes submission requirements for tenure holders; however, the ESF and submission and data standards are the same for submissions relating to the FFT program, with the exception that new opening definitions are sometimes needed to be assigned and activated by district staff before a submission can be prepared by the client or user.

6.2 The following data elements must be entered into RESULTS after a field survey has been completed for the FFT program. No legal obligations are associated with these areas; however, the ministry's objective is to manage these areas consistent with the requirements of the *Forest and Range Practices Act* (FRPA):

(a) Opening definition

- i. When to create a new opening definition
 - 1. Many FFT treated areas in wildfire or MPB infested areas will have a new opening created but consult [RESULTS INFORMATION SUBMISSION SPECIFICATIONS Government Funded Silviculture Activities](#) to determine if an existing opening should be updated.
- ii. Set the openings category to the appropriate natural disturbance designation
- iii. Set the SP (Site Plan) Exempt to "Y"
- iv. Provide the previous stand data (Previous Stand Type and Previous Timber Type fields)
- v. Provide opening gross area.

- vi. Provide approval date (start date).
 - 1. If this is a fire disturbance use the date of the fire.
 - 2. If this is a pest disturbance use the date of the survey.
- (b) Stocking Standards. Where treatments are proposed, load Stocking Standard information including:
 - i. For cases where the stocking standards are in accordance with the *Reference Guide to FDP Stocking Standards*:
 - 1. Standards Unit (SU)
 - 2. Net Area to be Reforested
 - 3. Standards ID
 - 4. Biogeoclimatic Ecosystem Classification (BEC) data (e.g., BGC Zone, BGC Subzone, Variant, Site Series)
 - 5. Spatial map that shows the location of each SU (GML)
 - ii. For cases where standards are created (subject to district manager approval):
 - 1. SU
 - 2. Net Area to be Reforested
 - 3. Regen offset (Regeneration delay period - automatically sets the Regeneration due date)
 - 4. Late offset (Free growing assessment period - automatically sets the Free Growing due date)
 - 5. Preferred Species/Minimum Heights
 - 6. Acceptable Species/Minimum Heights
 - 7. Target Stocking (Well-spaced Trees/hectare)
 - 8. Minimum horizontal inter-tree distance (meters)
 - 9. Minimum Preferred Stocking (Min Pref)
 - 10. Minimum Preferred and Acceptable Stocking (Min)
 - 11. Maximum number of conifers (trees/hectare)
 - 12. % Height relative to competition
 - 13. Spatial map that shows the location of each SU (GML)
- (c) Forest Cover. Load forest cover data that meets ministry precision and mapping standards specified in the [RESULTS INFORMATION SUBMISSION SPECIFICATIONS Form and Manner of Reporting \(Licensee Submissions\)](#), including:
 - i. SU and Polygon labels:
 - ii. Area (gross and net)
 - iii. Reference year (year of survey)
 - iv. Stocking status and type
 - v. Inventory layer data: (see [Silviculture Survey Procedures Manual](#))
 - 1. Crown Closure
 - 2. Basal Area – multi-layer stand – layer 1 only

3. Total Stems/ha
 4. Species %
 5. Average Species Age – dominant and co-dominant for 1st and 2nd species
 6. Average Species Height – dominant and co-dominant for 1st and 2nd species
 7. Damage Agent
 8. % Incidence of Damage Agent
 9. Area Affected by Damage Agent
 - vi. Silviculture layer data: (see [Silviculture Survey Procedures Manual](#))
 1. Basal Area – multi-layer stand – layer 1 only
 2. Total Well Spaced Stems/ha
 3. Well Spaced Stems/ha
 4. Free Growing Stems/ha
 5. Species %
 6. Average Species Age – average of all species
 7. Average Species Height – average of all species
 8. Damage Agent
 9. % Incidence of Damage Agent
 10. Area Affected by Damage Agent
 - vii. Reserve Type and Reserve Objective (where applicable)
 - viii. Spatial location of each forest cover polygon (GML)
 - ix. Spatial location of the opening (GML) (See Appendix B)
- (d) Activities
- i. Two (minimum) activities require mandatory data:
 1. Disturbance activity data:
 - a. Disturbance Code
 - b. Disturbance Start and End Dates (provide estimates)
 - c. Disturbance (Gross) Area
 2. Survey activity data:
 - a. Base = SU
 - b. Technique (RE-Reconnaissance or RG-Regen/Stocking)
 - c. Method (RECCE, WALK, PLOT, or other appropriate code)
 - d. Activity Completion Date
 - e. Treated Amount (Net Area surveyed in hectares)
 - f. Project number (7 digit PINES number)
 - g. Projected costs (provide estimate of survey cost)
 - h. Funding Source

Code	Definition	When to use
FTM	Forest for Tomorrow Ministry	All activities funded by the FFT program that were carried out by branch, regions or districts internally or with FFT recipients .
FTL	Forest for Tomorrow Licensee	All activities funded by the FFT program that were carried out by licensees under their FIA recipient agreement.

ii. Where treatments are planned or completed, load activity data to the following fields as applicable:

1. Planned Silviculture Activity

- a. If the activity is surveying, the recipient must follow the following convention for Base and Technique, the recipient is free to use any appropriate Method(except impeded review):
 - i. SU RE - Finding ground for FFT program
 - ii. SU RA - After activity has taken place
 - iii. SU RG - Determining status as it grows towards FG
 - iv. SU FG - Free-growing survey
 - v. SU FG - FILE - Impeded Stands data review
- b. If the activity is any other activity then the recipient is free to use any appropriate Base, Technique and Method.
- c. Objective (at least one silvicultural objective)
- d. Planned Date
- e. Projected Costs (estimate)
- f. Treated Amount (planned number of hectares to be treated)
- g. Project Number (7 digit PINES number)
- h. Funding Source

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FTL	Forest for Tomorrow Licensee	All activities funded by the FFT program that were carried out by licensees under their FIA recipient agreement.

2. Completed Silviculture Activity

- a. If the activity is surveying, the recipient must follow the following convention for Base and Technique, the recipient is free to use any appropriate Method:
 - i. SU RE - Finding ground for FFT program
 - ii. SU RA - After activity has taken place
 - iii. SU RG - Determining status as it grows towards FG

- iv. SU FG - Free-growing survey
- v. SU FG - FILE - Impeded Stands data review
- b. If the activity is any other activity then the recipient is free to use any appropriate Base, Technique and Method.
 - i. If Base=Planting, load the following data for each species planted: Species, Number Planted, Number Beyond Transfer Limit, Lot
- c. Objective (at least one silvicultural objective)
- d. Completion Date
- e. Projected Costs (actual costs if available, otherwise provide estimate)
- f. Treated Amount (number of hectares treated)
- g. Project Number
- h. Funding Source

Code	Definition	When to use
FTM	Forest for Tomorrow Ministry	All activities funded by the FFT program that were carried out by branch, regions or districts internally or with FFT recipients .
FTL	Forest for Tomorrow Licensee	All activities funded by the FFT program that were carried out by licensees under their FIA recipient agreement.

- iii. Treatment maps are required for all treatments and can be supplied as either pdf documents attached to the applicable opening in RESULTS, or as GML data included with the ESF submission document.
- iv. Treatments which modify the inventory and/or silviculture forest cover labels, and/or surveys which provide updated inventory and/or silviculture forest cover data require forest cover submissions to RESULTS including attribute and spatial data.
 - 1. If more than one silviculture activity occurs within a given reporting period, on a given opening, under the responsibility of a given project administrator, then forest cover XML and GML may be submitted after the last activity is completed in that reporting period

7.0 QUALITY ASSURANCE

7.1 The recipient is responsible for the data updated to RESULTS and any questions / edits identified by the QA process. All FFT data submitted for Quality Assessment must include the Recipients' name and contact information.

7.2 Where the recipient is using the services of a Service Provider to update RESULTS and directs the Service Provider to send the data directly to QA, then the Service Provider will need to inform the QA that this data submission is on behalf of [Recipient Contact Information].

7.3 The recipient may designate the service provider to address specific data quality issues as required, however the recipient is still responsible for the RESULTS data.

8.0 ENCUMBRANCE CHECKING

8.1 The recipient is responsible for checking to see if the openings / MUs they are working in have other conflicting uses.

8.2 Spatial checks against encumbrances that must be completed:

- (a) New Openings
 - i. Mapview
 - 1. Silviculture
 - a. Opening
 - b. Silviculture Forest cover Polygons
 - ii. [Integrated Land and Resource Registry](#) (ILRR)
 - 1. Forest Tenures (TFL)
 - 2. Range rights
 - 3. Research plots
 - 4. Trap Lines
 - 5. Ungulate Winter Range
 - 6. Private land
 - 7. Oil, gas, and mineral rights
- (b) Additional Encumbrance Checks
 - i. Mapview
 - 1. Forest Tenure
 - a. Approved Cutblocks
 - b. Pending Cutblocks
 - c. Approved Cutting Permits

8.3 Should there be conflicting uses of the opening / MU. These conflicts will need to be resolved before updating a completed or planned activity in RESULTS.

9.0 ATTACHMENTS AND DOCUMENTS

9.1 No documents, electronic or paper, shall be sent to the district office by the recipient, unless requested by the District Manager.

(a) This refers to final documentation to be filed. Recipients are encouraged and in some cases required to correspond with the district office on FFT projects. (i.e. consultation, road works, exemption letters, etc.)

9.2 Documents that provide future managers with useful information related to the opening shall be placed in RESULTS as an attachment.

(a) Information recorded in PlantWizard (tree quality, planting quality, etc) will be archived by the Ministry and does not need to be attached to the RESULTS opening.

(b) RESULTS will allow unlimited number of attachments (tested to 21) per opening record.

i. A meaningful name must be provided that will give the user a clear idea of the contents.

1. Where the attachment is from an activity, the description should be in the format yyyy_base_tech_meth.

(c) Each file cannot exceed more than 4 Megabytes.

i. PDF is the preferred format for documents

1. Combine information into one attachment, where possible.

ii. Optimize where possible

1. Pictures will take up most of the space. You will need to get the right balance between file size and picture quality. There are three key areas where bytes can be shaved off your graphics: bit depth (number of colours), resolution, and dimension. Generally this would be "640 x 480 px" or "800 x 600 px" at 80% quality.

a. Line work, shapes and sketches (where rich-depth is not required) should be converted to GIF format and sized to a resolution of 96 dpi (dots per inch) before placing it into the document.

b. Images that will be viewed on a computer monitor should be sized to a resolution of 72 ppi (pixels per inch) in JPG format before placing into the document.

2. Documents that are scanned should be scanned at resolution of 240 to 300 dpi (dots per inch) in black & white unless there are some real reasons to have it otherwise.

3. Digital maps should be saved in PDF format at 150 dpi (dots per inch).

a. Maps placed as an attachment must provide additional information. Do not attach maps that contain information that can be found in the spatial elements.

9.3 Documents that will provide useful information to manage the opening or management unit and

(a) are of a confidential nature;

- (b) are related to contracts; and
- (c) are not specific to an individual opening

will be sent, in electronic format, to the Regional Office, Forests for Tomorrow, to be placed into Enterprise Document and Records Management System (EDRMS aka TRIM).

9.4 All remaining documents will be stored by the recipient for a period of three years after the completion of the project.

- (a) This does **not** exempt the recipient of any requirements to maintain documents as described in the Recipient Agreement with third party administrator.

9.5 Unless specifically requested by a standard, the district manager or the FFT Regional representative, documents to be attached to RESULTS or placed in EDRMS are at the discretion of the recipient.

10.0 SPATIAL DATA FOR FFT ACTIVITIES THAT OVERLAP AN EXISTING OPENING

10.1 Overlapping Accuracy:

- (a) See [RESULTS INFORMATION SUBMISSION SPECIFICATIONS Form and Manner of Reporting \(Licensee Submissions\)](#) 6.1. General Mapping Standards

10.2 When an FFT activity area overlaps (completely or partially) the boundaries of an existing opening, the following principles are used to determine how to enter Spatial data into RESULTS.

Principles¹:

1. *Forests for Tomorrow* does not manage Post-87 non-FG openings (under licensee obligation) regardless of the disturbance type.
2. Post-87 FG openings revert to ministry responsibility for ongoing forest management. New openings are created over these openings.
 - a) If survey data has shown low pest mortality, monitoring activities and inventory may be updated to current opening. All subsequent non-monitoring activities will require a new opening.
3. New openings are created for fire (or other natural) disturbances that overlap FG (ministry responsibility) openings.

¹ Different approaches between a fire disturbance and a pest disturbance are followed to distinguish between the different temporal natures of the events. A fire is a single timeline event; i.e., the amount of disturbance remains the same after the fire. Pests are a gradient event; i.e., the amount of disturbance changes each year.

a) Normally FFT activity areas that are within fire disturbances that encompass, or occur inside of, the boundaries of a pre-87 non-FG (ministry responsibility) opening are managed under the existing opening, however new opening may be created.

4. FFT activity areas that are within pest disturbances on pre-87 non-FG or FG openings are managed within existing openings. New openings are created for areas outside the boundaries of existing openings.

10.3 Appendix C shows scenarios that will help determine how to enter spatial data into RESULTS. Follow the keys to identify the scenario number that describes a given situation, and the corresponding steps to enter the spatial data.

10.4 Where boundary discrepancies occur between the licensee and FFT boundaries (Principle 1 – FFT does not manage in an area under licensee obligation):

- (a) If discrepancy is greater than 1 ha, notify district/licensee and confirm correct boundary (to remove discrepancy)
- (b) If discrepancy is less than 1 ha, the opening under licensee obligation is considered correct and FFT opening is adjusted (to remove discrepancy)
- (c) If discrepancy is less than 1 ha and if silviculture activities occurred in the two conflicting areas during the same reporting period, no adjustments are made

11.0 MILESTONE DATES ON UPLOADING

- 11.1 All completed planting activities within the administrative year must have RESULTS updated and submissions to QA by November 30th.
- 11.2 All remaining completed activities within the administrative year must have RESULTS updated and submissions to QA by February 28th.
- 11.3 Deferring updating must be approved in writing by a regional FFT staff representative.

Appendix A – Summary of attribute and spatial requirements

Disturbance/Activity	Disturbance XML (attribute)	Disturbance GML (spatial)	Activity XML (attribute)	Activity Spatial GML and/or pdf	Forest cover XML & GML (attribute and spatial)
Disturbance	Required	Required	N/A	N/A	Required
Completed surveys (not associated with aerial fertilization application)	N/A	N/A	Required	Optional	Submission only required if change in label or attributes
Completed surveys/assessments associated with aerial fertilization application	N/A	N/A	Required	GML	N/A
Completed Planting	N/A	N/A	Required	GML or pdf attachment	Required
Danger Tree assessment and Felling	N/A	N/A	Required	Conditional (pdf required if only portions of opening have been assessed / felled)	Conditional (only if inventory of the block has changed from what is currently recorded)
Completed Brushing and Site Preparation	N/A	N/A	Required	GML or pdf attachment	Conditional (only if inventory of the block has changed from what is currently recorded)
Completed Fertilization and other large broadcast treatments	N/A	N/A	Required	GML	N/A
Planned Surveys and Treatments	N/A	N/A	Required	Optional	N/A
Planned Fertilization Treatment	N/A	N/A	Required	GML	N/A

Appendix B – Adding / Correcting an Opening boundary

1. New Opening
 - a. Mandatory spatial required.
 - b. RISS indicates SUs are only required when proposing planting however minimum SU data should be uploaded. (SU, NAR, BEC, SS ID and spatial).
2. Existing Opening
 - (a) where an opening boundary exists but different from new forest cover boundary and where an opening boundary is missing
 - i. Provide spatial correction to opening boundary (spatial submission only)
 - ii. Submit Opening definition with action code of U (update) and new opening boundary – only provide submission meta-data to not modify other data elements for the opening definition.
 - iii. Generate SU map if required, by using action code of U (update) and the spatial (NAR if area needs to be revised). Do not add any elements to the SU outside of the SU identifier and NAR or else the data will be treated as a data correction vs. spatial correction.

Appendix C – Spatial data for FFT Activities that overlap an existing opening.

The following appendix is to help the user apply the Principles set out in Section 10.

Definitions of terms used in the scenarios:

"activities" means silviculture treatments and surveys.

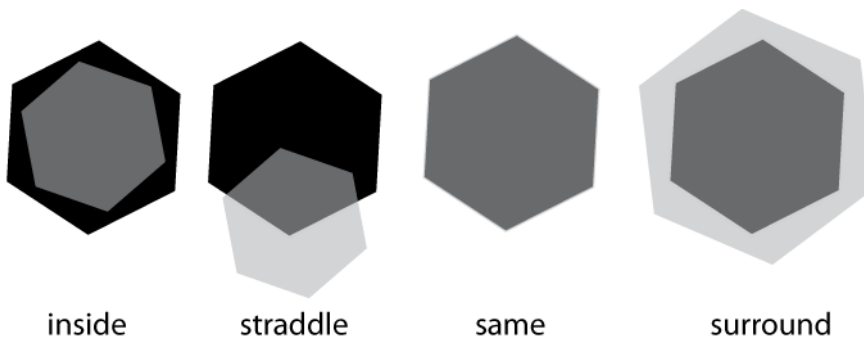
"inside" means a smaller FFT opening is completely inside a larger existing opening

"licensee opening" means an opening that has legal obligations attached to it. These are mainly post-87 harvested blocks.

"MFR opening" means an opening that does not have legal obligations attached to it and is under ministry responsibility. Mainly pre-87 openings.

"no spatial" means the existing opening does not have any Spatial data in RESULTS.

"overlap" means the FFT opening boundaries can be inside or outside of, or the same as, the boundaries of an existing opening. Overlaps can be **complete** (e.g., "surround" or "same") or **partial** (e.g., "straddle" or "inside").



"same" means the FFT opening and the existing opening match boundaries exactly (within a margin of error).

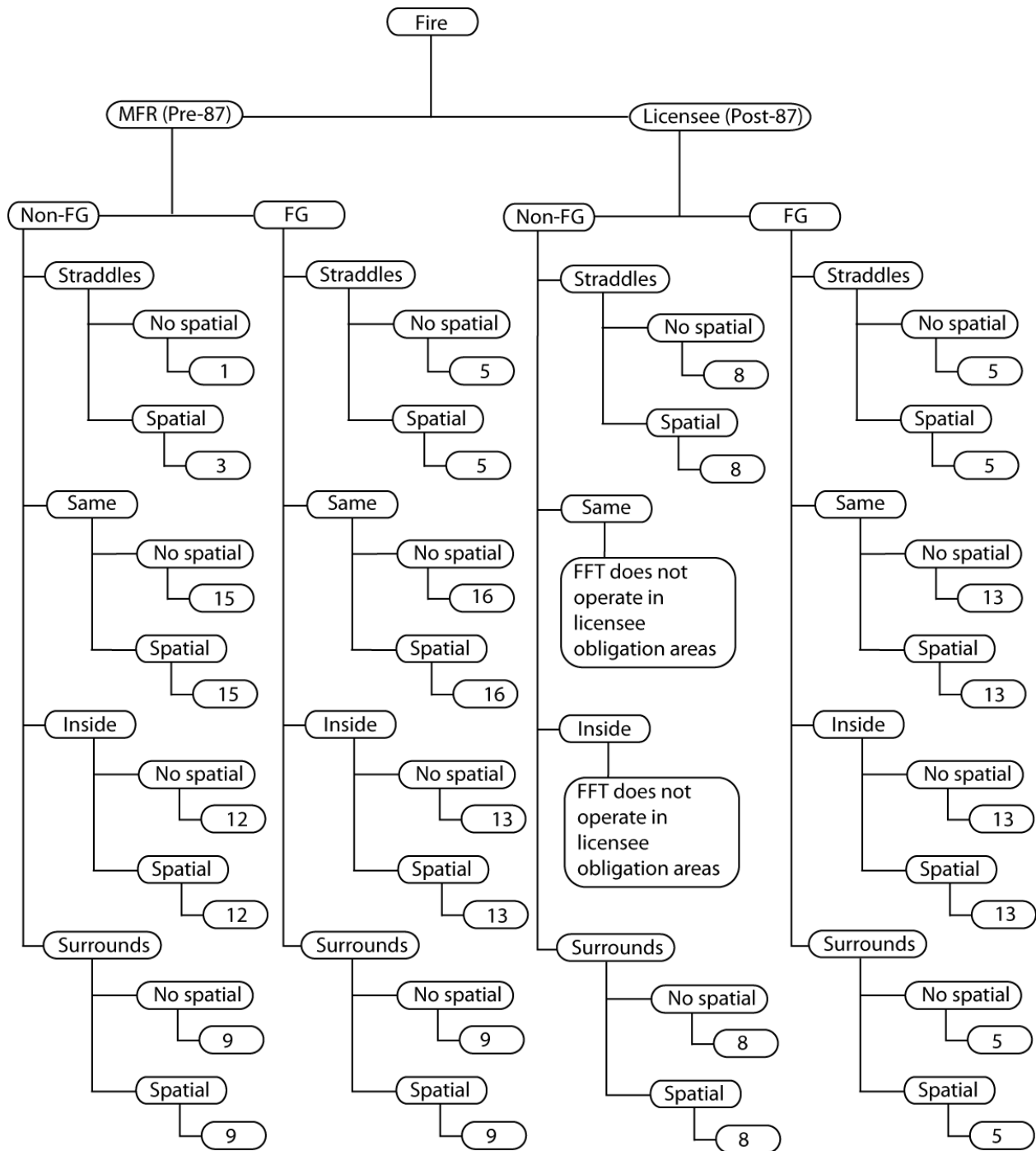
"spatial" means the existing opening has Spatial data in RESULTS.

"straddle" means the FFT opening boundaries straddle across the boundaries of the existing opening.

"surround" means a larger FFT opening completely engulfs a smaller existing opening

Key for fire² disturbances that overlap (partially or completely) an existing opening.

Note: The numbers represent scenarios not page numbers.



² This key may also be used for other natural disturbances, e.g., landslide, flooding, not involving pests.

Scenario 1

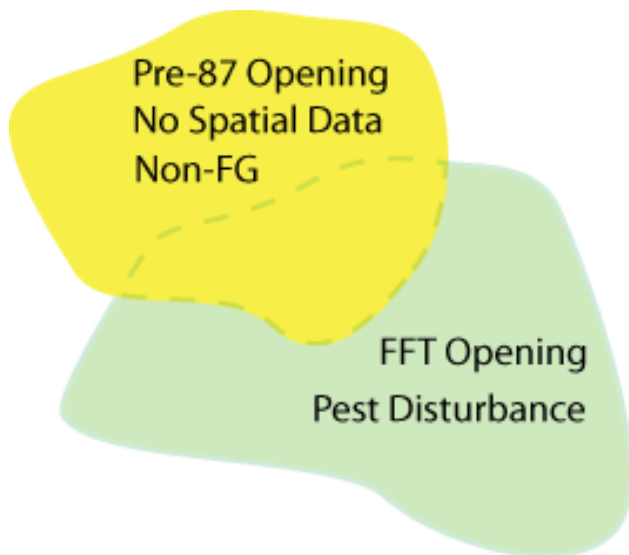
Fire disturbance Straddles MFR non-FG opening with no Spatial data



- Create a new FFT opening that includes the disturbed area in the existing opening.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Create Spatial for existing opening from VRI (Do not field traverse).
- Amend existing Opening to exclude disturbed area
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening

Scenario 2

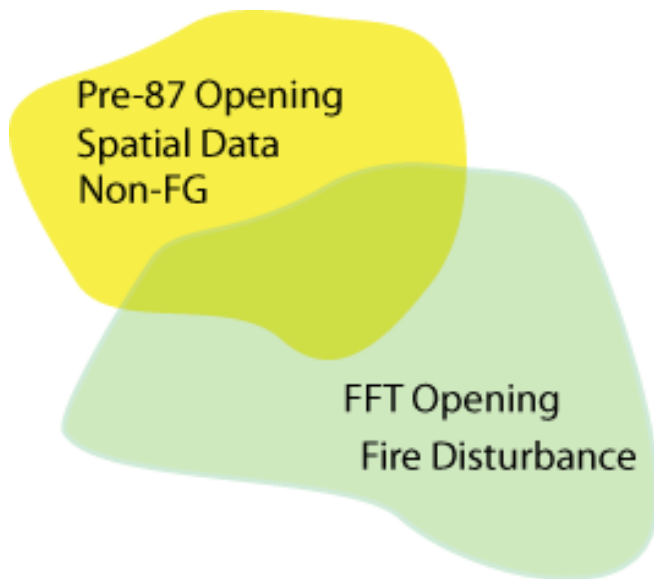
Pest Disturbance Straddles MFR Non-FG Opening Without Spatial Data



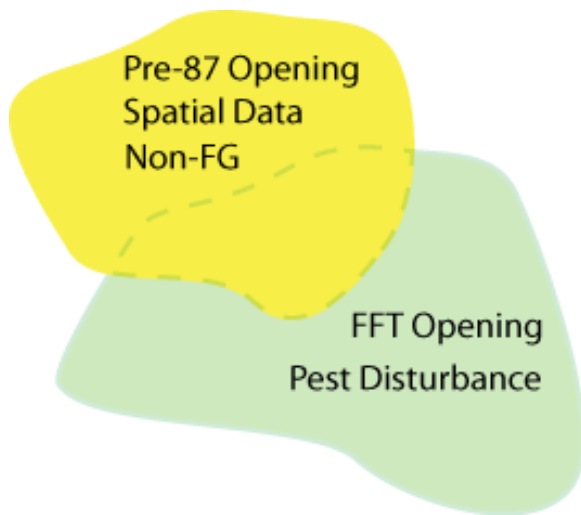
- Create a new FFT opening for the disturbed area(s) outside the existing opening.
- Update completed Activity(s)
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Create Spatial for existing opening from VRI (Do not field traverse).
- Create a new SU for the disturbed area inside the existing opening.
- Schedule Milestones for existing opening
- Update Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 3

Fire Disturbance Straddles MFR Non-FG Opening With Spatial Data



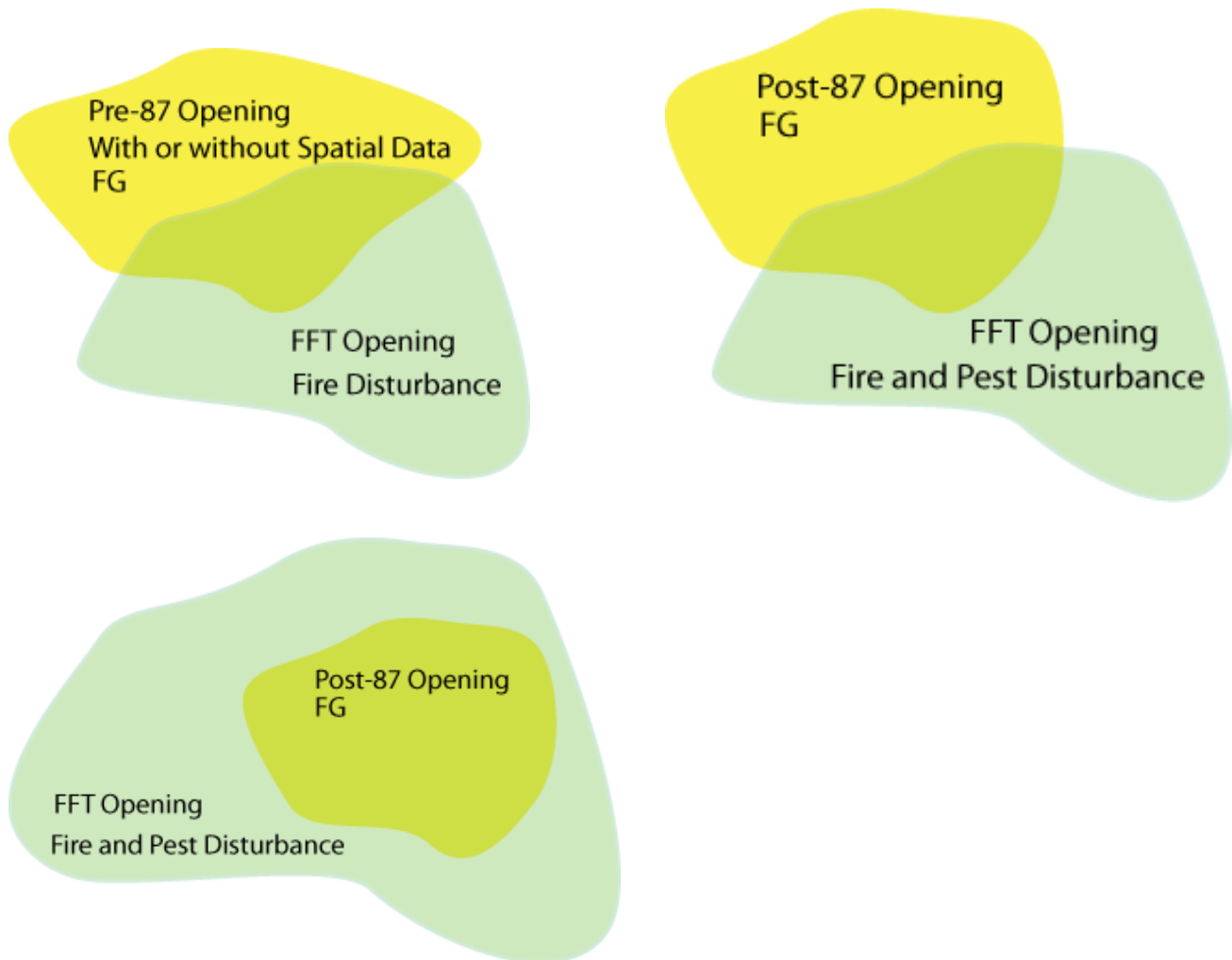
- Create a new FFT opening that includes the disturbed area of the existing opening.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Amend existing Opening to exclude disturbed area
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening

Scenario 4**Pest Disturbance Straddles MFR Non-FG Opening with Spatial Data**

- Create a new FFT opening for the disturbed area(s) outside the existing opening.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Create a new SU for the disturbed area inside the existing opening.
- Schedule Milestones for existing opening
- Update Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 5

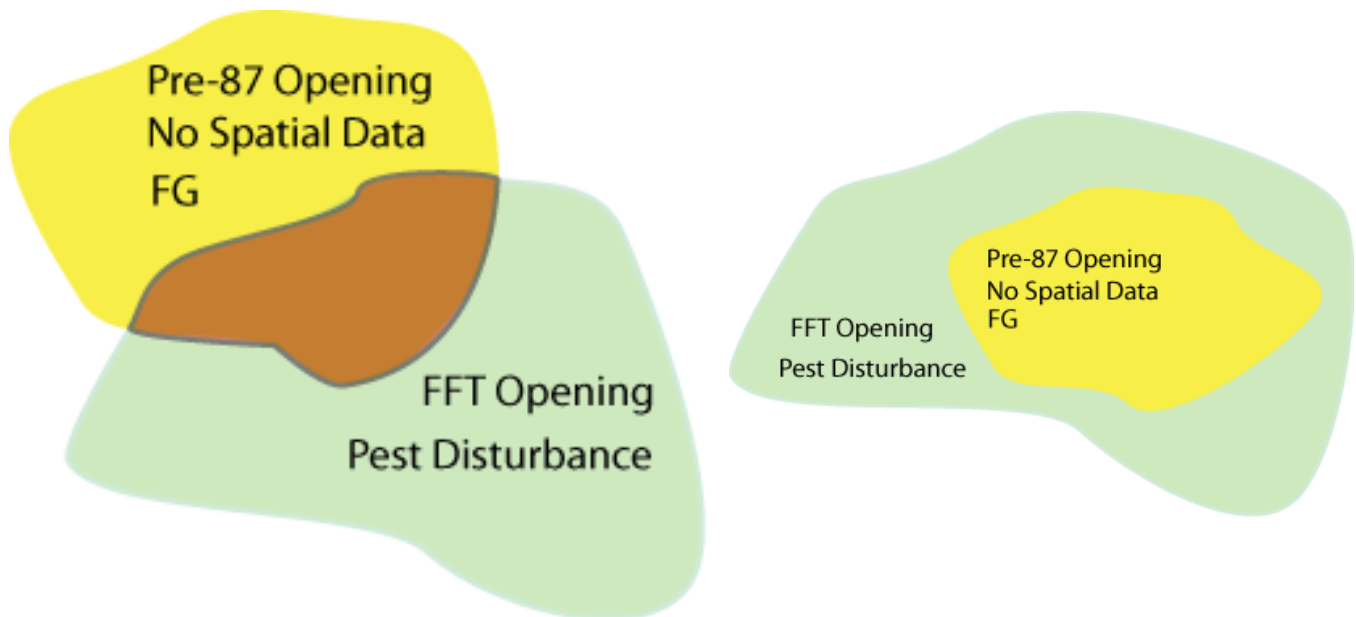
Fire disturbance on a Pre-87 opening declared FG or a fire and pest disturbance on a MFR or licensee post 87 opening declared FG which straddles or Surrounds or is inside a the existing opening with or without Spatial Data



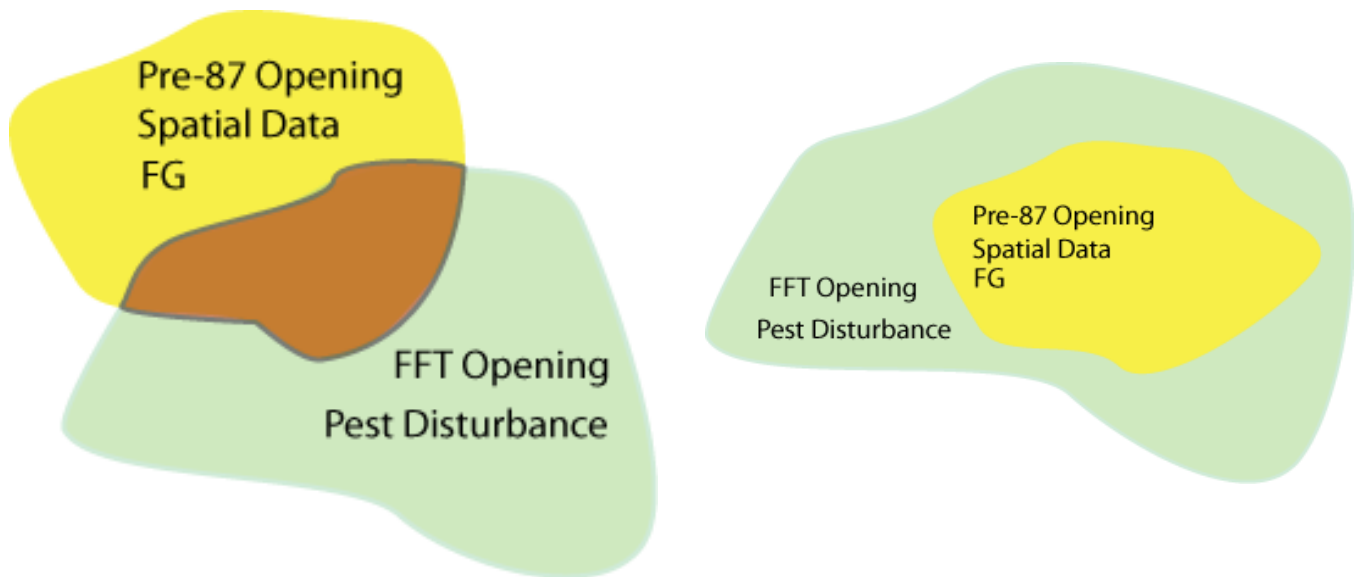
- Create a new FFT opening that includes the disturbed area of the existing opening.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- No adjustments to existing opening

Scenario 6

Pest Disturbance Straddles or Surrounds MFR FG Opening Without Spatial Data



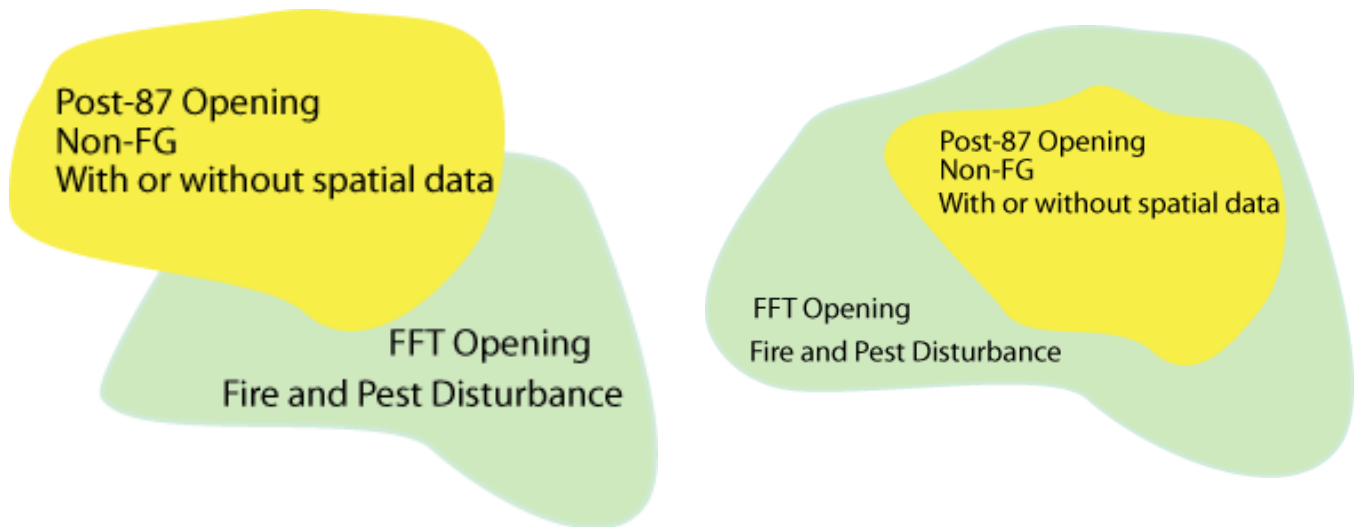
- Create a new FFT opening for the disturbed areas outside the existing opening.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Undeclare existing opening
- Create Spatial for existing opening from VRI (Do not field traverse).
- Create a SU for the disturbed area inside the existing opening.
- Update completed Activity(s) for existing opening
- Schedule Milestones for existing opening
- Update Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 7**Pest Disturbance Straddles or Surrounds MFR FG Opening With Spatial Data**

- Create a new FFT opening for the disturbed areas outside the existing opening.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Undeclare existing opening
- Create a SU for the disturbed area inside the existing opening.
- Update completed Activity(s) for existing opening
- Schedule Milestones for existing opening
- Update Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

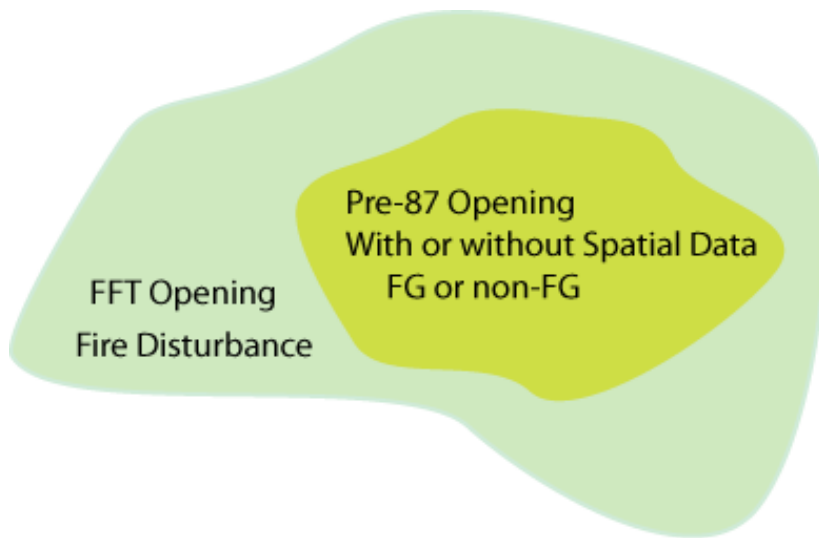
Scenario 8

Fire and Pest Disturbance Straddles or Surrounds licensee Opening not yet declared FG with or without Spatial Data

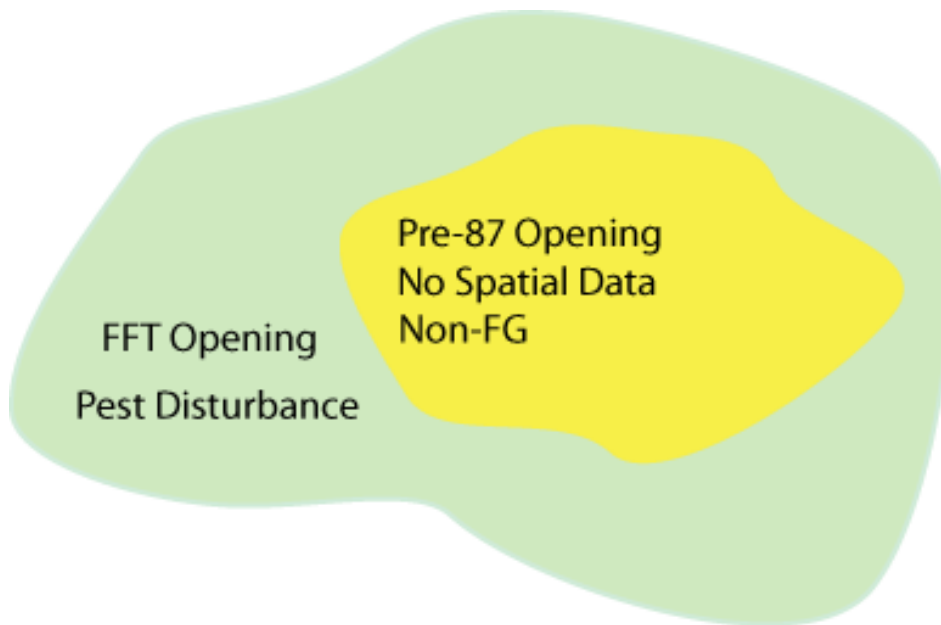


- Create new FFT opening outside of the boundaries of the licensee opening
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening

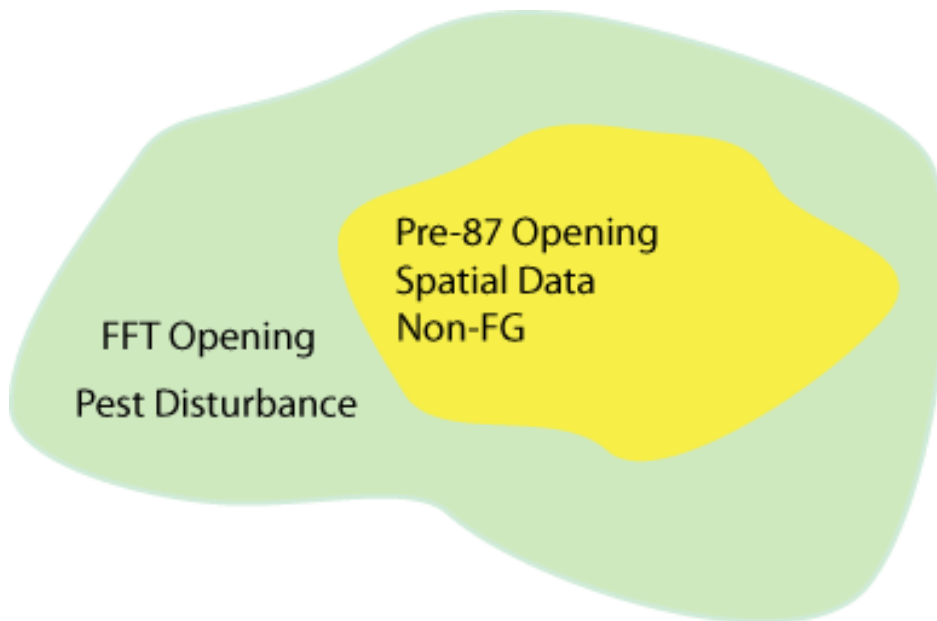
Activities inside the licensee opening may be carried out under FRPA s108

Scenario 9**Fire Disturbance Surrounds MFR FG or Non-FG Opening with or without Spatial Data**

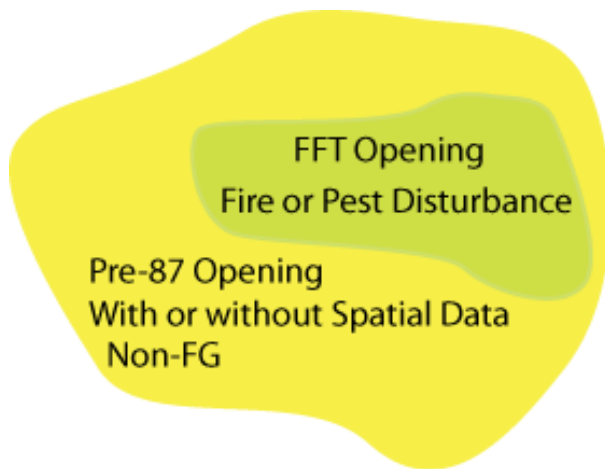
- Create new FFT opening that includes the disturbed existing opening
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Attach summary of existing opening to new opening
- Remove existing opening

Scenario 10**Pest Disturbance Surrounds MFR Non-FG Opening without Spatial Data**

- Create new FFT opening for the disturbed areas outside the existing opening
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Create Spatial for existing opening from VRI (Do not field traverse).
- Update completed Activity(s) for existing opening
- Schedule Milestones for existing opening
- Submit Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 11**Pest Disturbance Surrounds MFR Non-FG Opening with Spatial Data**

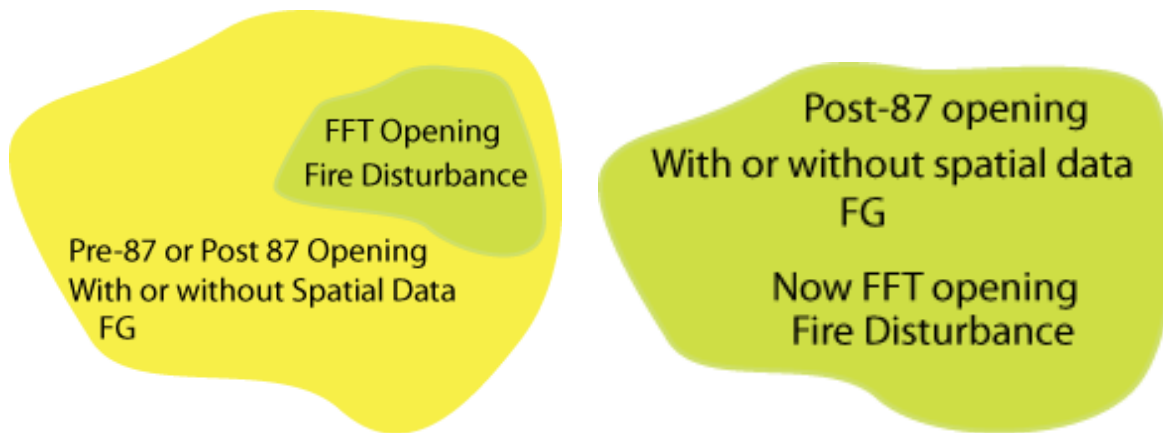
- Create new FFT opening for the disturbed areas outside the existing opening
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- Update completed Activity(s) for existing opening
- Schedule Milestones for existing opening
- Submit Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 12**Fire or Pest Disturbance inside MFR non-FG Opening with or without Spatial Data**

- Create new SU over disturbed area
- Update completed /planned activity(s)
- Update Forest Cover & Spatial for the entire opening, including disturbed portion (Use VRI for spatial on the non-disturbed area if no spatial data exists – Do not field traverse)
- Update Milestones where applicable
- Submit required attachments

Scenario 13

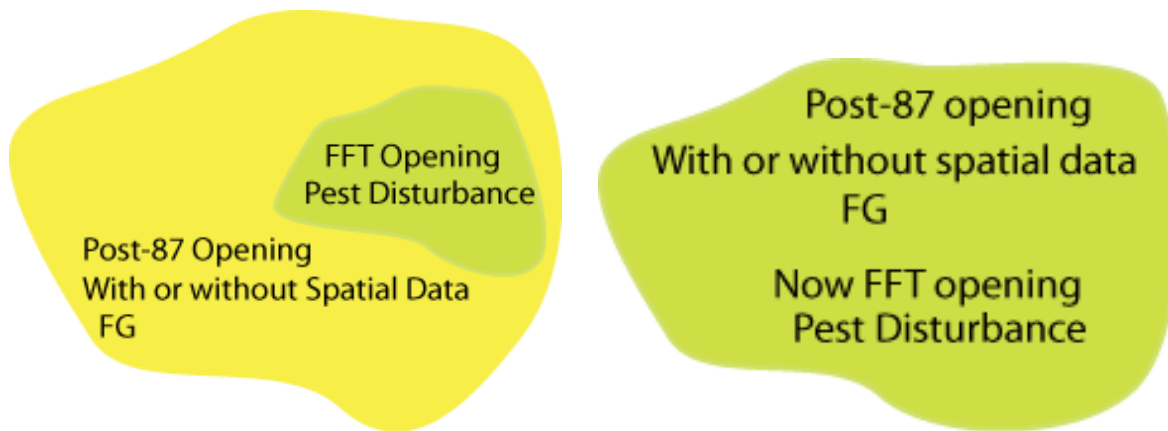
Fire Disturbance inside MFR or licensee FG Opening with or without Spatial Data



- Create a new FFT opening over the disturbed area.
- Update completed Activity(s) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- No adjustments to existing opening

Scenario 14

Pest Disturbance inside or the same as a Licensee FG Opening with or without Spatial Data



- Create a new FFT opening over disturbed area.
- Update completed Activity(s) for new opening
- Add planned Forest Health Survey (if pest disturbance) for new opening
- Schedule Milestones for new opening
- Submit Forest Cover and Spatial for new opening
- Submit required Attachments for new opening
- No adjustments to existing opening

Scenario 15

Fire or Pest Disturbance or impeded stand. Same as boundary of MFR Non-FG Opening with or without Spatial Data



- Update NAR (add minimum SU data {SU, NAR & BEC} if applicable)
- Update completed Activity(s) for existing opening
- Add planned Forest Health Survey (Pest or Impeded only)
- Schedule Milestones for existing opening
- Submit Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 16

Fire Disturbance Same as boundary of MFR FG Opening with or without Spatial Data



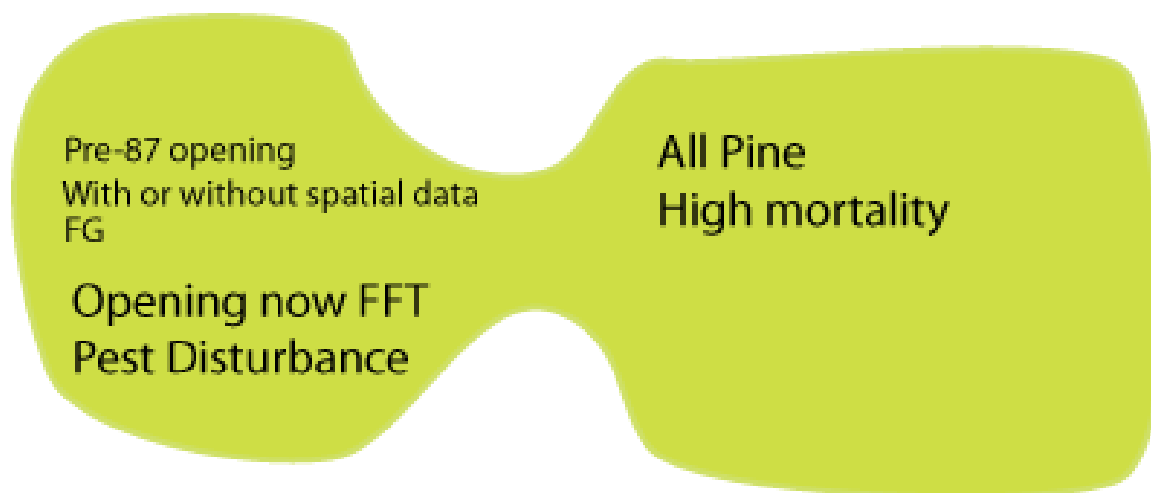
Pre-87 opening
With or without spatial data
FG

Now FFT opening
Fire Disturbance

- Undeclare existing opening .
- Update completed Activity(s) for existing opening
- Schedule Milestones for existing opening
- Submit Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 17

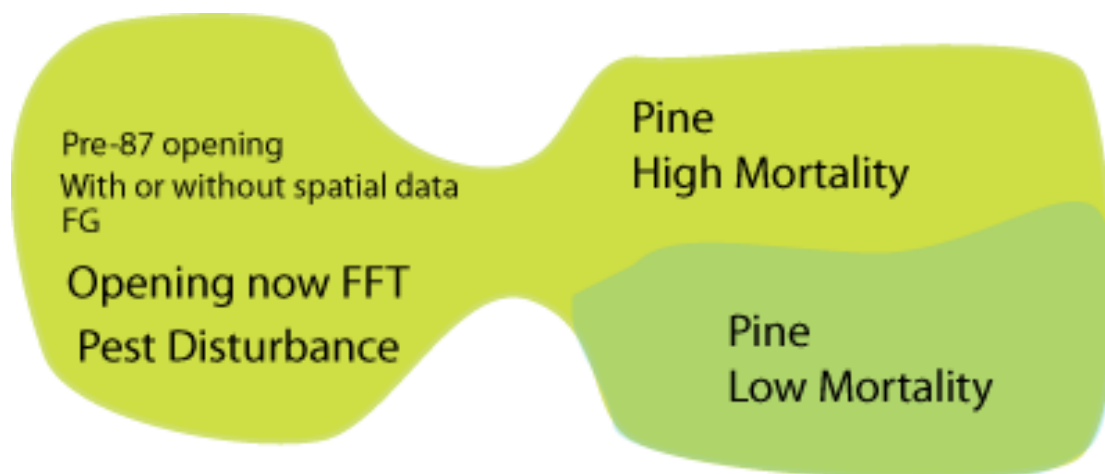
Pest Disturbance Same as the boundary of MFR FG Opening with or without Spatial Data, with Pine affected by MPB



- Undeclare existing opening
- Update NAR (add minimum SU data {SU, NAR & BEC} if applicable).
- Update completed Activity(s) for existing opening
- Add planned Forest Health Survey
- Schedule Milestones for existing opening
- Submit Forest Cover and Spatial for existing opening
- Submit required Attachments for existing opening

Scenario 18

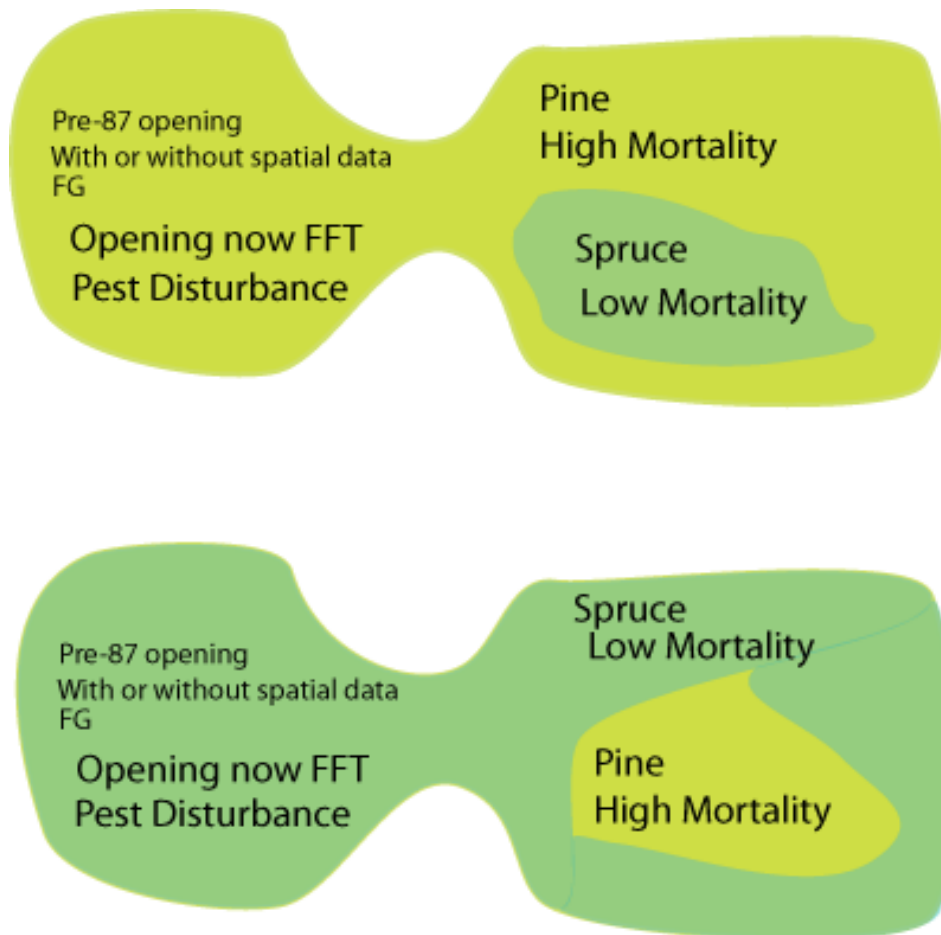
Pest Disturbance Same as boundary of MFR FG Opening with or without Spatial Data, all Pine, partially affected by MPB



- Undeclare existing opening
- Revise SU(s) based on mortality rates (if applicable) or add SU(s) based on mortality / stocking standards
- Add Disturbance, where applicable
- Update completed /planned activity(s)
- Add planned Forest Health Survey
- Update Forest Cover & Spatial
- Update Milestones where applicable
- Submit required attachments

Scenario 19

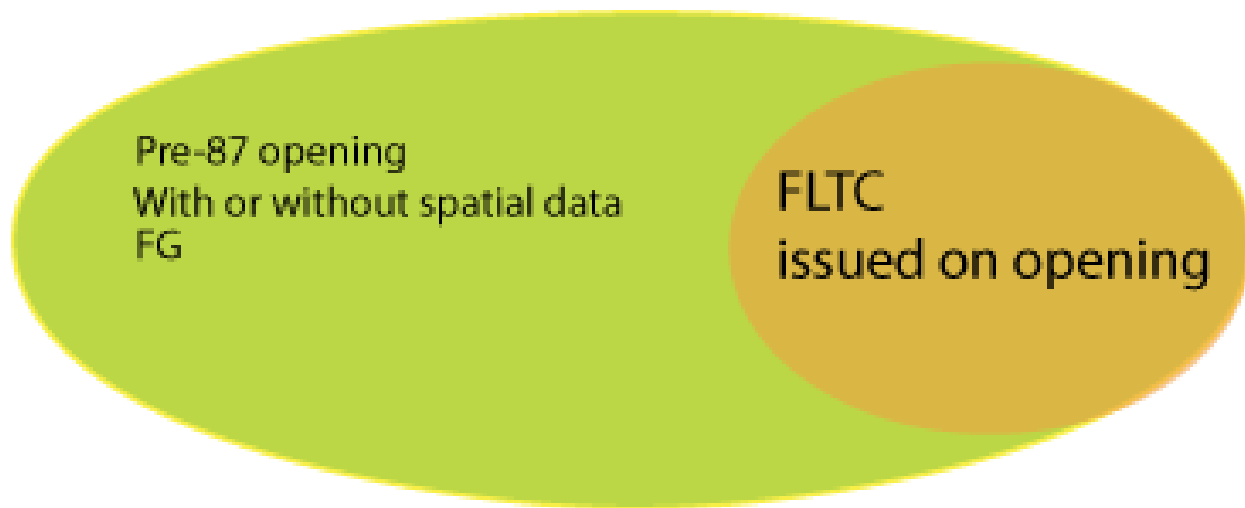
Pest Disturbance identical to the boundary of MFR FG Opening with or without Spatial Data - Pine affected by MPB with areas of other species that meet FG



- Undeclare existing opening .
- Create SU for non-pine species (e.g., Sx)
- Create / revise SU(s) for PI, based on mortality rates (if applicable) / stocking standards
- Update completed & planned activity(s)
- Add Disturbance, where applicable
- Add planned Forest Health Survey
- Update Forest Cover & Spatial
- Update Milestones (Sx SU and, where applicable, PI SU)
- Submit required attachments

Scenario 20

A FLTC has been issued on part of an existing opening



Currently Under Development – See the FFT Regional Staff or Forest Practices Branch for assistance

Scenario 21

A FLTC has been issued on all of an existing opening

Pre-87 opening

With or without spatial data
FG

FLTC
issued on opening

Currently Under Development – see the FFT Regional Staff or Forest Practices Branch for assistance