

INTEGRATED WILDFIRE MANAGEMENT

Defending communities, forestry, agricultural estates, and natural assets with elite Type 1 wildland crews, helitack response, and audit-ready wildfire disaster frameworks.

20+ YEAR PROVEN TRACK RECORD

Protecting high-risk landscapes and strategic assets for key clients including: SANParks, CapeNature, Cape Winelands District Municipality, Overberg District Municipality, Western Cape Government, PG Bison, Vergelegen Wines, Cape Peninsula Fire Protection Association, and Greater Overberg Fire Protection Association.

Uncontrolled wildland fires pose a catastrophic threat to agricultural estates, commercial forestry, municipal infrastructure, and sensitive ecological biomes. The Integrated Wildfire Management unit at NCC-Group operates as a heavyweight tactical and strategic partner - combining over 100 specialised, fully equipped wildland firefighters with alien vegetation clearing, strategic firebreak construction, and pre-attack disaster planning tailored for Fire Protection Association (FPA) members.

From initial fuel-load reduction and prescribed ecological burning to rapid-response helitack deployment within the "golden hour," we defend high-risk landscapes, protect corporate brand assets, and ensure total statutory compliance.

Core solutions include:

- Professional Firefighting Crews
- Alien Clearing & Firebreak Construction
- Prescribed Burning & Controlled Fire Services
- FPA Member Audits & Pre-Attack Planning
- Specialised Wildfire Training & Incident Command Systems (ICS)

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INTEGRATED WILDFIRE MANAGEMENT:
STRATEGIC SECTORS & KEY ACCOUNTS

The Integrated Wildfire Management unit at NCC-Group partners with national parks, district municipalities, commercial forestry operators, global emergency services, and commercial insurers to mitigate wildland fire risks. Combining international wildfire export credibility with rapid B2B deployment, we protect natural capital, critical infrastructure, and human lives across complex landscapes.

Operational flexibility: From deploying full Type 1 Interagency crews for long-duration incident suppression to executing prescribed burns and strategic FPA member audits, NCC provides scalable, audit-ready wildfire management tailored to your operational risk profile.

Priority Sectors & Reference Clients

- **Fire Protection Associations (FPA) & Statutory Bodies**

  Facilitating FPA statutory compliance, member readiness audits, powerline corridor risk mitigation, and pre-loss assessments for Greater Overberg FPA, Cape Peninsula Fire Protection Association, Santam, and regional FPA networks.

- **Conservation & Reserves**

  Executing multi-year landscape fire regime management, ecological burning, and emergency suppression across vast protected biomes for SANParks, CapeNature, Western Cape Government, DFFE, and international conservation trusts like African Parks.

- **Commercial Forestry Operators & Industrial Timber Estates**

  Safeguarding high-value timber plantations and processing facilities through strategic fuel-break clearing, pre-attack plans, and dedicated wildfire suppression teams for PG Bison (KAP Limited) and Amathole Forestry Company (New Forests).

- **Commercial Agriculture, Wine Estates & High-Risk HOAs**

  Providing localised fuel-load reduction, prescribed burning, alien clearing, and perimeter protection for commercial agricultural holdings, wine estates, and nature reserves including Vergelegen Wines, Klein Constantia Estate, Ezulu Game Reserve, Grootbos Private Nature Reserve, and key regional agricultural estates.

- **District Municipalities & Local Government Services**

  Delivering regional wildfire readiness frameworks, seasonal fire suppression contracts, and municipal support for Cape Winelands District Municipality, Overberg District Municipality, Overstrand Municipality, and local municipal authorities.

- **International Emergency Partners & Global Donors**

  Exporting specialised wildland firefighting crews, ICS expertise, and disaster planning frameworks to international partners including Rocky Mountain Fire Company (USA), USFS (Ethiopia), and Greater Kafue Landscape (African Parks).

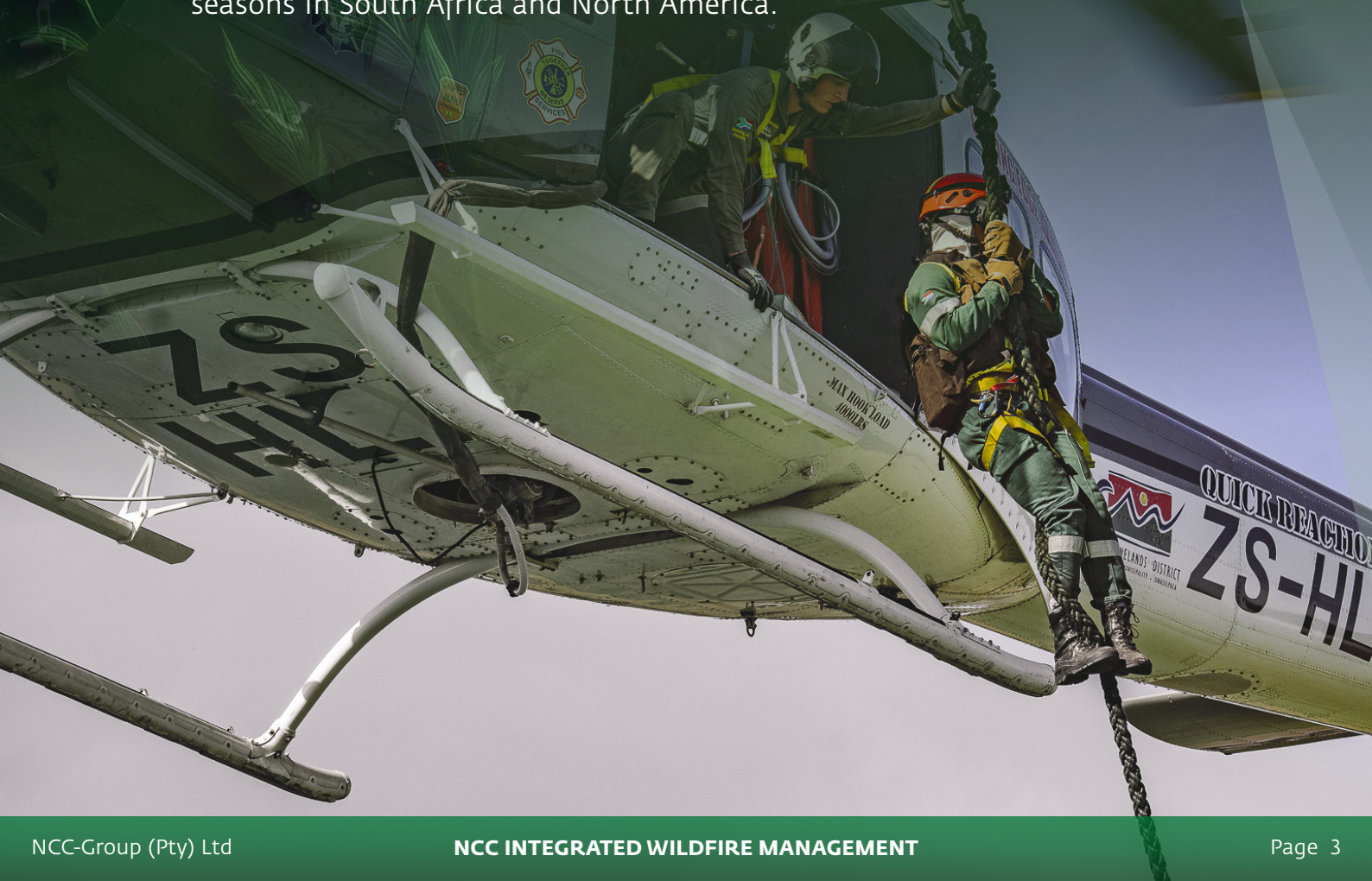
INTEGRATED WILDFIRE MANAGEMENT:
EXPANDED SERVICE PORTFOLIO

Bridging the gap between strict statutory fire legislation and high-risk field suppression, the Integrated Wildfire Management unit at NCC-Group delivers an integrated suite of strategic fire planning, tactical crew placement, and spatial fuel modelling. From pre-season risk reduction to rapid aerial extraction on active fire fronts, our wildland specialists protect assets while building long-term landscape resilience.

Core Service Offerings & Granular Solutions

1. Professional Wildland Firefighting Crews & Rapid Deployment

- **Type 1 Interagency Wildland Crews**
  Provision of highly trained, physically vetted Type 1 ground crews - fully equipped with wildland PPE, bakkie skid units, high-pressure pumps, wildland hand tools (rake hoes, beaters), and heavy machinery coordination for rapid wildfire suppression.
- **Helitack & Quick Reaction Force (QRF) Teams**
  Rapid-response initial attack crews deployed via helicopter to contain fire ignitions within the critical "golden hour" window.
- **Fast Roping & Hot Extraction Capabilities**
  Specialised aerial insertion and hot-extraction teams trained to access inaccessible terrain and steep mountain fire lines.
- **National & Global Resource Coordination**
  Scalable logistics coordination to shift crew capacity dynamically during peak fire seasons in South Africa and North America.



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2. **Strategic Wildfire & Pre-Attack Disaster Planning**
    - **Integrated Wildfire Management Plans (IWMP)**
      Formulation of comprehensive IWMPs and landscape-scale fire regime plans for agricultural landholders, forestry estates, nature reserves, and municipalities.
    - **Wildland-Urban Interface (WUI) Planning**
      Designing specialised buffer zones, defensible spaces, and structural protection plans for developments adjacent to natural vegetation.
    - **Wildfire Pre-Attack Plans**
      Drafting tactical pre-attack plans for towns, industrial assets, and infrastructure hubs to establish evacuation routes and water points prior to ignitions.
    - **Regional Readiness Frameworks**
      Developing multi-agency wildfire readiness frameworks for district municipalities, national parks, and FPAs.
3. **Specialised Wildfire Training & Incident Command System (ICS)**
    - **Wildland Firefighter Training Programmes**
      Accredited wildland firefighting courses, crew leader training, and landowner wildfire awareness capacity building.
    - **ICS Implementation**
      Establishing ICS management structures, radio communication protocols, and Joint Operations Centres (JOC) for multi-agency incident handling.



INTEGRATED WILDFIRE MANAGEMENT: **EXPANDED SERVICE PORTFOLIO**

4. **Comprehensive Wildfire Assessments & Biomass Modelling**
    - **Wildfire Risk & Vulnerability Assessments**
      Technical hazard mapping and vulnerability scoring for commercial properties, agricultural estates, and solar/wind energy facilities.
    - **FPA Member Compliance Audits**
      Independent auditing of landholder compliance against National Veldfire Act statutory mandates and FPA regulations.
    - **Advanced Biomass Volume Modelling**
      High-resolution GIS fuel load mapping and biomass density modelling to predict potential fire intensity and flame lengths.
    - **Insurance-Specific Risk Assessments**
      Post-fire claim verification, burn severity mapping, and pre-loss risk scoring to assist commercial insurers and asset owners.
5. **Prescribed / Risk Reduction Burning & Technology**
    - **Prescribed Ecological Burning**
      Planning and executing controlled burns to maintain fynbos health, clear old vegetation, and stimulate indigenous seed germination.
    - **Alien Clearing & Strategic Firebreaks**
      Integrated alien vegetation removal, mechanical fuel clearing, and defensible firebreak construction along high-risk agricultural and estate perimeters.
    - **Drone-Based Monitoring & Thermal Spotting**
      Deploying aerial drone technology for real-time fire perimeter monitoring, mop-up operations, and thermal hotspot detection during active fires and prescribed burns.

THE POWER OF NCC

Integrated Solutions for Landowners, Municipalities & Estate Managers

Integrated Wildfire Management is just one facet of total landscape resilience. At NCC, we draw on a shared model of senior environmental specialists, wildland experts, safety officers, and advanced spatial tools to deliver a complete support system for agricultural estates, commercial forestry, nature reserves, renewable energy assets, and municipal landscapes.



Environmental Management

Specialist consulting for Environmental Impact Assessments (EIAs), Ecological & Biodiversity Assessments, Environmental Monitoring including Biomonitoring, Environmental & Social Risk Auditing, Due Diligence, and Water Use Licence (WUL) & GA Applications.



Occupational Health & Safety

Comprehensive health and safety management, heavy construction safety expertise, proactive risk assessments, and legal compliance monitoring.

Biodiversity & Conservation

Invasive Species Control (ISMP), alien plant clearing, post-fire ecological restoration, and scientific biodiversity assessments.



Integrated Wildfire Management

A heavyweight tactical unit comprising over 100 specialised wildland firefighters, providing Type 1 ground crews, heavy machinery coordination, prescribed burning, and statutory pre-attack disaster planning.



Why partner with NCC?

The Single-Partner Advantage

We act as a unified, single point of contact for FPA member landowners, municipal managers, and forestry operators - combining alien clearing and firebreak creation with prescribed burns, Type 1 emergency suppression, and statutory compliance auditing under one contract - eliminating the friction of managing multiple contractors.

Scientific Defensibility & Audit Readiness

Our invasive species management plans (ISMPs), ecological monitoring systems, and compliance reporting leverage advanced data modelling and technical research, ensuring all project frameworks withstand rigorous statutory auditing, financier scrutiny, and environmental reviews.



National Reach with Local Nuance

We combine national operational scalability with deep local intelligence across the Western Cape - partnering directly with district and local municipalities, CapeNature, and local FPAs.

Uncompromising "Extra Mile" DNA

Our adaptive culture ensures our subject matter experts look beyond a narrow project scope to co-create practical solutions with engineering and site teams, actively preventing costly project delays.

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