

NELSON

Case Study · US Department of State

# US Department of State: destroying legacy dioxin.

A purpose-built thermal treatment plant under construction at a former airbase in Vietnam, to destroy legacy dioxin residues left by mid-20th-century military operations.

FORMER AIRBASE · VIETNAM · IN PROGRESS

**On-site**
Plant design and assembly

**Combo**
Direct/indirect thermal system

**<100 ppt TEQ**
Dioxin destruction criteria

## THE WORK

Reinforced concrete containment, the foundational treatment pad and the plant itself are being assembled on site, including kiln placement and the emissions stack.

Nelson is delivering the engineered thermal system inside a United States Department of State legacy dioxin program, working under the prime contractor. Once commissioned, the plant will treat dioxin-impacted soil to a destruction criterion of <100 ppt TEQ.

## PROJECT RECORD

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|---|---|
| CLIENT | United States Department of State program, through the prime contractor |
| SITE | Former US airbase, currently an active Vietnamese airbase, Vietnam |
| EQUIPMENT | Purpose-built direct/indirect combination thermal treatment system |
| SCHEDULE | On-site civil works and plant assembly underway |
| RESULT | Pending commissioning. Objective is the site returned to safe future use |

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|---|---|
| NELSON ROLE | Design-build and execution of the engineered thermal treatment system |
| CONTAMINANTS | Legacy dioxin residues from mid-century herbicide handling and storage |
| VOLUME | 111,170 $m^3$ |
| TREATMENT CRITERIA | <100 ppt TEQ |