

TECHNICAL MASTER GUIDE

# BPK HOUSING SYSTEMS

Industrial Infrastructure, Military Support, and Migrant  
Workforce Logistics

**PREPARED FOR:** Strategic Partners & Government Contractors

**SECTOR:** Temporary & Permanent Industrialized Housing

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# Enterprise Mandate

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BPK Housing operates at the intersection of rapid mobilization and high-spec engineering. We do not provide "trailers"; we provide **Industrialized Workforce Assets** designed to maintain the integrity of large-scale project timelines in the world's most demanding environments.

## 1.1 Sector Specialization

Our operational architecture is purpose-built to address the critical housing shortage in four primary sectors:

- **Military & Defense:** Bivouac systems and contractor support facilities on-base.
- **Energy & Infrastructure:** Scalable "Man Camps" for pipeline, renewables, and civil engineering.
- **Agricultural (H-2A):** Highly compliant migrant labor dormitories engineered for federal labor audits.
- **Disaster Recovery:** Rapid-deployment FEMA-spec modules for housing and medical triage.

**Deep Value Commitment:** Every BPK asset is pre-verified against state and federal regulations before it leaves the staging area, reducing your regulatory risk to near-zero.

# Engineering Specifications

Structural stability and thermal performance are the foundations of workforce retention. BPK Housing units are engineered to outperform traditional temporary structures in every metric.

<b>Structural Chassis</b>	Dual 12-inch wide-flange I-Beams; 100% welded steel cross-members; integrated tie-down points for 150MPH loads.
<b>Wall Assembly</b>	2x6 heavy-duty framing; continuous vapor barrier; exterior sheathing rated for High-Velocity Hurricane Zones (HVHZ).
<b>Thermal Envelope</b>	R-30 Closed Cell Roof Foam; R-19 Mineral Wool Walls; R-22 Floor insulation for sub-zero and extreme-heat environments.
<b>HVAC Systems</b>	High-efficiency 18+ SEER systems with industrial-grade filtration for dust-heavy oilfield or agricultural sites.
<b>Life Safety</b>	Fire-retardant interior finishes (Class A); hardwired interconnect smoke/CO detectors; integrated fire suppression options.

## 2.1 Scalability Matrix

From a single "Couple of Units" for a localized farm operation to a 500-unit "Infrastructure City," BPK utilizes modular interconnects that allow for rapid scaling without site-specific architectural redesign.

# The Compliance Firewall

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The primary risk for contractors and farmers is the "Housing Audit." BPK Housing eliminates this risk through pre-deployment compliance engineering.

## AGRICULTURAL H-2A MANDATE

Our units meet or exceed **20 CFR § 655.122** and **OSHA 1910.142**. This includes mandated ratios for plumbing fixtures, square footage per occupant, and industrial-grade sanitation protocols. We ensure your seasonal labor force is housed in an audit-ready environment 365 days a year.

## GOVERNMENT & MILITARY STANDARDS

BPK provides technical documentation for **Unified Facilities Criteria (UFC)** and **NEPA Environmental Assessments**. Our assets are recognized as transportable equipment, allowing for rapid procurement cycles within Government contracting frameworks.

## TEXAS INDUSTRIALIZED BUILDING CODE

Units carry the TDLR Industrialized Housing and Buildings (IHB) seal, ensuring legal placement and building code reciprocity across the State of Texas and beyond.

# Turnkey Mobilization

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Logistics in infrastructure deserts require a specific set of operational capabilities. BPK Housing manages the entire "cradle-to-grave" deployment cycle.

## 4.1 Site Engineering & Readiness

We consult on soil compaction, gravel pad specs, and utility stub-up locations to ensure zero-delay setting upon unit arrival.

## 4.2 Mobilization & Heavy-Haul

Our logistics network handles oversized permits, pilot cars, and multi-state routing for high-volume fleet deployment.

## 4.3 Set & Tie-In Protocols

Units are professionally blocked, leveled, and anchored. We manage the integration of aerobic waste systems and industrial power skids for off-grid operations.

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**BPK HOUSING: THE SOURCE OF TRUTH IN WORKFORCE LOGISTICS**

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