

Regional Power Resilience Hub

Subapplicant information

Name of federal agency

FEMA

Type of submission

Application

CITY OF HENDERSON

240 S WATER ST
HENDERSON, NV 89015 United States

State	UEI-EFT	DUNS #	EIN #
NV	D4QQSLNCP9Z8	025942165	886000720

Subapplicant type

Local Government

Is the subapplicant subject to review by Executive Order 12372 Process?

Yes-This Pre-application/application was made available to the Executive Order 12372 Process for review on.

Enter date

2026-06-01

Is the subapplicant delinquent on any federal debt?

No

Continue

Regional Power Resilience Hub

Status: Submitted to
recipient

Contact information

Subrecipient Authorized Representative (SAR)

David Lasic david.lasic@cityofhenders	Primary phone 	Mailing address
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Point(s) of contact

Stacy DiNicola Grants Coordinator stacy.dinicola@cityofhenc	Primary phone 7022671753 Work	Additional phones 7022671776 Work	Mailing address 240 E Water Street MSC 121 Henderson NV 89015
	Fax	7022671776 Work	

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**Status: Submitted to
recipient**

Community

Please provide the following information. If the Congressional district number for your community does not display correctly, please contact your State NFIP coordinator.

Add Communities

Please find the community(ies) that will benefit from this mitigation activity by clicking on the Find communities button. If needed, modify the Congressional District number for each community by entering the updated number under the U.S. Congressional District column for that community. When finished, click the Continue button. NOTE: You should also notify your State NFIP coordinator so that the updated U.S. Congressional District number can be updated in the Community Information System (CIS) database.

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District
HENDERSON, CITY OF	003	320005	Y	5	1

Please provide any additional comments below (optional).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Letter of Support - Henderson FEMA.pdf	06/25/2026	david.lasic@cityofhenderson.com	Community Attachments	Letter of Support	
AMI MAP 50 E Van - Downtown.pdf	06/23/2026	david.lasic@cityofhenderson.com	Community Attachments	Downtown Rec Center AMI map	
SVI MAP Henderson multi gen.pdf	06/23/2026	david.lasic@cityofhenderson.com	Community Attachments	Multi Gen Center Social Vulnerability Index (SVI) map	
SVI MAP Downtown Recreation	06/23/2026	david.lasic@cityofhenderson.com	Community Attachments	Downtown Rec Center	

Filename	Date uploaded	Uploaded by	Label	Description	Action
Center.pdf				Social Vulnerability Index (SVI) map	
SVI map Heritage Park 300 s racetrack.pdf	06/23/2026	david.lasic@cityofhenderson.com	Community Attachments	SVI Map Heritage Center	
AMI Map 300 racetrack - Heritage.pdf	06/23/2026	david.lasic@cityofhenderson.com	Community Attachments	Heritage AMI Map	
FINAL BRIC LOS_Rep Dina Titus.pdf	06/25/2026	david.lasic@cityofhenderson.com	Community Attachments	Letter of Support	

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Mitigation plan

Please provide your plan information below.

Is the Subapplicant entity that will benefit from the proposed activity covered by the current FEMA approved multi-hazard mitigation plan in compliance with 44 CFR Part 201?

Yes

Please provide plan detail

Plan name	Plan type	Plan approval date
Clark County Multi-Jurisdictional Hazard Mitigation Plan	Local Multijurisdictional Multi-Hazard Mitigation Plan	02/12/2024

Proposed activity description

This activity is designed to fulfill the high-priority goals established in the 2024 MJHMP: • Goal 1 (Life Safety): The project reduces the potential for loss of life and injury by ensuring that regional mass care shelters remain operational during extreme weather events. • Goal 4 (Property Protection): By maintaining building systems and pressurized HVAC during utility outages, the project protects existing municipal properties using a whole-community resilience approach. • Goal 3 (Grant Utilization): This proposal actively seeks federal BRIC funding to implement critical mitigation measures as encouraged by the plan's framework.

Please provide any additional comments below (optional).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
2024-fema-approval-multi-jurisdictional-hazard-mitigation-plan.pdf	06/01/2026	david.lasic@cityofhenderson.com	Mitigation Plan Attachments	FEMA approval of Clark County Hazard Mitigation Plan	

Filename	Date uploaded	Uploaded by	Label	Description	Action
Link to Multi Jurisdictional Hazard Mitigation Plan.pdf	06/01/2026	david.lasic@cityofhenderson.com	Mitigation Plan Attachments	Link to plan	

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Regional Power Resilience Hub

Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)

Regional Power Resilience Hub

Do any of the following apply for this project?

None

Activities

Primary activity type

Generator

Primary sub-activity type

Portable

Secondary activity type (Optional)

Acquisition

Tertiary activity type (Optional)

Utility and infrastructure protection

Tertiary sub-activity type

Electrical/power

Geographic areas description

The proposed project is located within the City of Henderson, Nevada, encompassing a 150-square-mile municipal service area. While the two 500kW mobile generators are portable assets designed for regional deployment, the physical construction of the electrical docking stations and manual transfer switches will occur at three fixed geographic hubs: Heritage Park Senior Facility: 300 S. Racetrack Rd., Henderson, NV 89015 (Lat: 36.033580, Long: -114.945530) Downtown Recreation Center: 50 E. Van Wagenen St., Henderson, NV 89015 (Lat: 36.035510, Long: -114.985590) Henderson Multi-Generational Center: 250 S. Green Valley Pkwy., Henderson, NV 89012 (Lat: 36.025270, Long: -115.084210) This geographic distribution strategically establishes a "Resource-Flexible Resilience Grid" across the city. The primary

service area for these three hubs encompasses approximately 47,000 residents. Specifically, the project targets historically underserved census tracts within the 89015 and 89012 zip codes, which are identified as having "High Vulnerability" under the CDC Social Vulnerability Index (SVI). By geographically positioning these resilience hubs in these specific corridors, the project directly mitigates extreme heat risks for Henderson's most at-risk populations, specifically prioritizing low-to-moderate-income (LMI) neighborhoods and high-density senior communities.

Community lifelines

Primary community lifeline	Food, water, shelter
Primary sub-community lifeline	Shelter
Secondary community lifeline (optional)	Safety and security
Secondary sub-community lifeline	Community safety
Tertiary community lifeline (optional)	Energy
Tertiary sub-community lifeline	Power grid

Hazard sources

Primary hazard source	Extreme temperature
Secondary hazard source (optional)	Severe storm
Tertiary hazard source (optional)	Infrastructure failure
Is this a phased project?	No
Are you doing construction in this project?	Yes
Percentage of population impacted	12.85

Provide detailed description of population impacted

Overall Service Population The proposed Regional Power Resilience Hub will directly serve an estimated 47,000 residents, representing approximately 12.85% of the City of Henderson's total projected population of 365,728. This service population is distributed across three primary emergency deployment hubs located in the 89015 and 89012 zip codes.

Vulnerability Profile & Demographics The project is specifically designed to protect historically underserved and highly vulnerable demographic groups who are disproportionately impacted during extreme heat events and grid failures. The primary beneficiaries include:

- Seniors:** Approximately 20.8% of the Henderson population is aged 65 and older.
- Individuals with Disabilities:** An estimated 12.6% of the population lives with a disability.
- SVI & LMI Households:** The target service areas encompass census tracts identified as having "High Vulnerability" under the CDC Social Vulnerability Index (SVI). Furthermore, the project strategically targets low-to-moderate-income (LMI) households, particularly in the Downtown sector, who often lack the financial means to afford private backup power generation or emergency relocation (hoteling) during sustained outages.

Site-Specific Population Breakdown The 47,000-resident service area is segmented by the specific demographic profiles surrounding the three rapid-deployment docking hubs:

- Heritage Park Senior Facility:** Serving approximately 15,000 unique residents in the immediate area, this site acts as the city's flagship senior facility and captures a high-density senior population.
- Downtown Recreation Center:** Serving an estimated 12,000 residents, this hub supports a higher-density, lower-income urban core where residents are highly dependent on municipal lifeline services.
- Henderson Multi-Generational Center (Green Valley):** Serving roughly 20,000 residents, this high-traffic facility acts as a regional safe-haven for family-oriented neighborhoods.

Nature of Impact and Risk Reduction During periods of excessive heat (110 degrees F), power outages present an immediate life-safety threat. By establishing these redundant "Cooling Refuges", the project

Provide a clear and detailed description of your proposed activity

guarantees the continuity of critical municipal lifeline services. This ensures that vulnerable residents have continuous access to climate-controlled sanctuaries and sustained refrigeration for critical medications and food supplies, directly reducing the risk of heat-related mortality.

The City of Henderson is proposing the Regional Power Resilience Hub project to address growing life-safety risks caused by extended power outages. These outages are primarily due to extreme heat (110°F and above) and severe wind events; however, these could also be caused by aging infrastructure, cybersecurity vulnerabilities, or targeted attacks on power grids. Loss of power conditions present serious threats to vulnerable residents, especially during the summer months when cooling systems and essential services are taxed and could be disrupted. To better understand the scope of the problem, the City analyzed 2025 NV Energy System Average Interruption Frequency Index (SAIFI) and Customer Average Interruption Duration Index (CAIDI) feeder data, which confirms both the frequency of outages and the potential duration of service interruptions. To reduce these risks, Henderson will upgrade three existing municipal facilities—the Heritage Park Senior Facility, the Downtown Recreation Center, and the Henderson Multi-Generational Center—so they can operate as Emergency Shelter and Cooling Refuges during prolonged power outages. The total project cost is \$1,545,000, with \$1,158,750 requested through federal funding and a \$386,250 local match secured through municipal bonds. The primary focus of the project is to establish reliable, redundant backup power across all three sites in compliance with the City’s mandatory jurisdiction-wide adoption of the 2024 International Building Code. Furthermore, the City enforces these standards effectively, maintaining a Building Code Effectiveness Grading Schedule (BCEGS) rating of 3 (see attached confirmation). This will include purchasing two Cummins C500D6RE 500kW mobile generators (for a combined capacity of 1,000kW), along with site upgrades such as quick-connect docking stations, manual transfer

switches, reinforced concrete pads, and underground conduit improvements. The two generators will be shareable across all three sites. The project is already well-advanced, with design work approximately 90% complete, meaning it includes detailed drawings and specifications suitable for bidding, permitting, and actual construction. These site-specific electrical plans and bid-ready specifications are signed and stamped by a licensed professional engineer. This effort directly supports the 2024 Clark County Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) by addressing both excessive heat and severe wind hazards. It advances MJHMP Goal 1 (Life Safety) and Goal 4 (Property Protection). By ensuring these facilities remain operational during outages, the project helps maintain essential community lifelines, including shelter, cooling, lighting, and refrigeration for medications and food. Asset planning considered natural hazards over the 20-year useful life of the generators, including adapting to changing conditions such as the projected increase in the frequency and intensity of extreme heat events. The project area includes approximately 47,000 residents, with a focus on the 89015 and 89012 zip codes. These areas include a significant number of vulnerable residents, including seniors, who make up 20.8% of the population, as well as low-to-moderate-income households. Data from the CDC Social Vulnerability Index (SVI) and the Climate and Economic Justice Screening Tool (CEJST) confirm that these communities face elevated risks during extreme heat events. The mobile generator units will provide meaningful ancillary benefits beyond the primary cooling centers. Because the units are trailer-mounted, they can be deployed to other critical municipal facilities when needed, including water pump stations and sewer lift stations, significantly reducing service interruptions and improving the reliability of critical infrastructure. This capability helps maintain essential public services during localized outages and reduces the risk of compounding public health impacts related to water delivery and sanitation. To strengthen regional resilience, the City will also pursue coordination with neighboring

jurisdictions, such as the City of Las Vegas and Clark County, through mutual aid agreements. In the event that an adjacent community experiences a power failure affecting critical infrastructure, the mobile units may be deployed to support life-safety operations where they are most needed. This regional deployment strategy improves the overall value of the investment and expands the project's ability to support emergency response across Clark County. To ensure these resources are accessible, the City will implement a Preparedness Hub model that includes resident outreach, direct mail campaigns, and coordination with the Henderson Senior Citizen Advisory Commission. These efforts will help residents understand when and how to access the facilities during emergencies. In addition to improving emergency power capacity, the project incorporates practical and forward-looking design elements. By employing a "Split-Fleet" strategy utilizing two mobile generators instead of a single fixed unit, the City achieves a 33% increase in operational capacity and gains the flexibility to deploy power where it is most needed, increasing operational effectiveness during localized outages. Site improvements will also include planting native desert trees, such as Desert Willow and Palo Verde, to provide shade and help reduce heat around equipment and gathering areas. To address stormwater concerns during monsoon events, the sites will incorporate permeable native gravel, rock, and micro-bioswales to prevent surface pooling near electrical infrastructure.

How will the mitigation activity be implemented?

Phase 1: Final Engineering and Competitive Procurement The project is at approximately 90% design completion, reflecting a high level of readiness for implementation and alignment with FEMA BRIC priorities. Upon award, final electrical one-line diagrams and technical specifications will be completed, and a competitive sealed bidding process will be conducted for procurement of two 500kW mobile generator units and associated site improvements. All procurement actions will comply with 2 CFR 200 Uniform Guidance to ensure federal compliance, cost reasonableness, open competition, and strict

cost management to mitigate the risk of vendor price escalations. Phase 2: Internal Coordination and Project Management Project administration will follow established municipal financial management, procurement, and internal control procedures to ensure accountability, documentation, and audit readiness. Implementation will include contract execution, milestone-based disbursements, financial tracking, and rigorous pre- and post-implementation monitoring to measure progress and performance against schedule baselines. To manage schedule risks effectively, the City will utilize strict Go/No-Go milestone evaluations during the Environmental and Historic Preservation (EHP) clearance (Month 6) and Request for Proposal (RFP) execution (Month 8) phases. Phase 3: Site Preparation and Construction Construction will occur at the designated facilities and will include installation of reinforced concrete pads, trenching and placement of electrical conduit, and integration of manual transfer switches and quick-connect docking stations into existing electrical systems. Nature-based solutions will also be incorporated through permeable native gravel, rock, and micro-bioswales, alongside native landscaping, to support stormwater management and reduce localized heat impacts. These site improvements support long-term resilience and reinforce the project's mitigation function. Following site preparation, the generator units will be delivered, installed, and tested. Commissioning will include load-bank testing, verification of electrical compatibility at each connection point, and confirmation of operational performance under simulated outage conditions. The project is designed to support continuity of critical community lifelines, particularly food, water, and shelter, during prolonged utility (electricity) disruptions. The Benefit-Cost Analysis (BCA) conducted using the FEMA BCA Toolkit (v6.0) methodology, supports implementation of this mitigation activity. Based on 2025 NV Energy outage data, the project addresses a documented recurring power reliability issue across the service area, including repeated outages and sustained interruption durations at the targeted facilities. Using FEMA standard

value of service assumptions for electric power, the project demonstrates an annualized benefit of \$24.9 million against an annualized project cost of \$1.69 million, resulting in a Benefit-Cost Ratio of 14.76. This confirms the project is highly cost-effective and consistent with FEMA BRIC's requirement to reduce future risk and avoid higher response and recovery costs. Final activities will include system validation, documentation of operational procedures, and completion of all financial reconciliation and reporting requirements. Project closeout documentation will be submitted in accordance with FEMA guidelines. Upon completion, the project will enhance community resilience, reduce vulnerability to extreme heat and grid failure, and provide a repeatable mitigation solution supported by both technical readiness and a strong economic justification.

Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damage to property and/or loss of life in the project area. Please include engineering design parameters and references to the following: preliminary schematic or engineering drawings/design; applicable building codes; engineering practices and/or best practices; level of protection (e.g., life safety, 100-yr flood protection with freeboard, 100-yr wind design, etc.):

The Regional Power Resilience Hub is technically feasible because it relies on commercially available emergency power equipment and standard electrical construction practices that are well established and widely used in public facility applications. The project will deploy two shareable 500kW mobile generator units and connect them to three existing municipal facilities through manual transfer switches, quick-connect docking stations, reinforced concrete pads, and associated electrical conduit. This approach avoids reliance on custom systems and instead uses proven methods for emergency power deployment during outage events. The project is supported by preliminary engineering documents prepared at the 90% design stage, providing detailed drawings and specifications suitable for bidding, permitting, and actual construction. These site-specific electrical drawings for each facility identify the necessary conduit routing, switchboard integration, feeder sizing, and connection points required for implementation. Critically, these preliminary schematic and engineering designs are signed and stamped by a licensed professional engineer. All work will be completed in accordance with the City's mandatory jurisdiction-wide adoption of the 2024 International Building Code and applicable

electrical standards, including the National Electrical Code requirements for emergency and standby power systems. Site preparation, concrete pad installation, trenching, and electrical tie-ins will follow accepted engineering practices for safe and reliable installation. The use of standardized equipment and code-compliant construction methods supports both constructability and long-term operational reliability. The project is intended to reduce risk by maintaining critical facility operations during prolonged utility outages caused by extreme heat and severe weather. In the project area, outage frequency and duration have been documented through utility reliability data, and the Benefit-Cost Analysis demonstrates that the proposed mitigation measure is cost-effective. The level of protection provided is life safety. By sustaining cooling, lighting, and other essential functions at designated refuge facilities, the project reduces the likelihood of heat-related illness, loss of life, and secondary damage to facility systems and contents. The shared-asset model also strengthens community resilience and provides ancillary benefits beyond the three primary sites. If conditions warrant, the mobile generators can be deployed to other critical municipal infrastructure to reduce service interruptions, or, through coordination with partner jurisdictions, used to support emergency operations in the region. This increases the overall utility of the federal investment and improves continuity of essential services during emergency conditions. The project's effectiveness is further supported by its Benefit-Cost Ratio of 14.76, which reflects avoided losses associated with emergency sheltering, interrupted operations, and damage prevention for a service population of 47,000 residents.

Level of Protection The primary level of protection achieved by this mitigation activity is Life Safety, specifically mitigating the catastrophic, compounding threats of extreme heat and prolonged power loss.

Life-Safety Heat Mitigation: The system guarantees 100% continuous operability of three municipal cooling centers during extreme temperature anomalies (110°F+) and subsequent power outages frequently caused by a stressed

electrical grid. By providing a redundant, high-capacity power supply, the project ensures life-sustaining services—including pressurized HVAC, emergency lighting, and refrigeration for critical medical and food supplies—remain fully functional. This directly prevents heat-related morbidity and mortality among the City's most vulnerable residents during a sustained grid failure. **Power Loss Resilience (Indefinite Operability):** The infrastructure is engineered to provide an immediate, sustained emergency power supply capable of carrying the full critical load of each facility. Unlike battery backups with limited durations, these high-capacity mobile diesel systems ensure the cooling centers remain fully operational and accessible to the public during an indefinite, multi-day blackout.

Go/No-Go Milestones Milestone 1:

Environmental and Historic Preservation (EHP) Clearance and Section 106 Compliance • Target Schedule: Month 6 of Period of Performance • Milestone Description: The City of Henderson will secure final EHP clearance from the federal awarding agency, including Section 106 historical compliance approval for ground-disturbing activities (electrical conduit trenching and pad pouring) at the Downtown Recreation Center, Heritage Park Senior Facility, and the Henderson Multi-Generational Center. • **Go Condition:** Federal EHP clearance and State Historic Preservation Office (SHPO) approvals are officially granted, allowing the City to proceed with the release of the electrical construction Request for Proposal (RFP). • **No-Go Condition:** Unmitigable historical or environmental impacts are identified, or SHPO denies the necessary trenching permits, preventing the installation of the standardized quick-connect docking stations and neutralizing the project's technical feasibility. • **Mitigation Strategy:** The City will conduct early coordination with SHPO during Phase 1 (Engineering) to ensure trenching pathways avoid historically sensitive footprints, specifically around the Downtown Recreation Center site. **Milestone 2: Execution of Procurement Contracts (RFP Award) • Target Schedule: Month 8 of Period of Performance • Milestone Description:** The City of Henderson

will successfully execute a full and open competitive bidding process in strict compliance with the procurement standards outlined in 2 CFR 200 (Uniform Guidance). This milestone culminates in the Henderson City Council's formal award of the contracts for both the two 500kW mobile generator units and the site-specific electrical infrastructure work. • Go Condition: Contract awards are executed within the approved \$1,485,000 project budget, and the selected equipment vendor guarantees manufacturing and delivery of the Tier 4 Final generators within the remaining 16 months of the grant's period of performance. • No-Go Condition: Severe supply chain shortages prevent the fulfillment of the generator assets within the grant lifecycle, or compliant bids exceed the project budget without the City having the capacity to cover the funding shortfall, rendering the project financially or logistically unviable. • Mitigation Strategy: The City is proactively maintaining a "Bid-Ready" technical specification package to initiate the RFP immediately upon EHP clearance, maximizing the procurement window to account for industrial manufacturing lead times.

Who will manage and complete the mitigation activity?

Executive Oversight and Grant Administration
The City of Henderson will serve as the lead applicant, fiscal agent, and primary project manager for the Regional Power Resilience Hub. Executive oversight will be directed through the City Manager's Office, specifically the Assistant City Manager, who oversees both the Emergency Management and Public Works Departments. Collectively, they will ensure the mitigation activity aligns with municipal hazard mitigation goals and progresses on schedule. Financial and Regulatory Compliance To guarantee federal audit readiness and cost reasonableness, the Finance Department, specifically the Grants Division of Finance, will manage all grant accounting, milestone drawdowns, and financial reporting. All procurement and financial tracking will be executed in strict adherence to 2 CFR 200 Uniform Guidance standards. The Purchasing Division of Finance will oversee the execution of all vendor contracts, and competitive bid awards. The Emergency Management Department and City Attorney's Office will work

together to establish regional Memorandums of Understanding (MOUs) for mutual aid deployment. Technical Management and Construction The daily technical implementation and site supervision will be jointly managed by the City's Public Works and Emergency Management departments. These teams will be responsible for:

- Managing the contracted engineering firm to finalize the 90% electrical design drawings and technical specifications.
- Overseeing the competitively selected construction contractors during the installation of the concrete pads, conduit trenching, manual transfer switches, and quick-docking stations at all three recreation centers.
- Coordinating the integration of the Nature-Based Solutions (NBS), including the planting of native desert shade canopy and permeable ground cover.

Commissioning and Long-Term Operations
Upon delivery of the two 500kW mobile generator sets, the City's Public Works Department will oversee the load-bank testing and site commissioning. Once operational, these same internal teams will be responsible for the long-term preventative maintenance, staff training, and physical deployment of the assets during a grid failure.

Will the project address the hazards identified and what risks will remain from all hazards after project implementation (residual risk)?

The Regional Power Resilience Hub directly addresses the identified hazards of extreme heat, prolonged power loss, and severe wind. The project is designed to keep three municipal cooling centers operational during extreme temperature events and utility outages by using quick-connect docking stations and two shareable 500kW mobile generators. This preserves critical life-safety functions, including HVAC, emergency lighting, and refrigeration for medical and food supplies, for a service population of approximately 47,000 residents. The project also reduces risk from severe wind by ensuring that permanent site components, including reinforced concrete pads, anchoring systems, and exterior electrical infrastructure, are designed and installed in accordance with the 2024 International Building Code and applicable engineering standards. These improvements strengthen the ability of the facilities to remain functional during hazardous weather conditions and support continued

access to shelter and cooling when needed. The primary level of protection achieved by this mitigation activity is life safety. The system is intended to provide immediate and sustained emergency power to carry the full critical load of each facility during a prolonged outage. Unlike limited-duration battery backup systems, the mobile generator units are designed to support continuous operation during extended, multi-day blackout conditions. This helps reduce the likelihood of heat-related illness and death during extreme heat events compounded by power loss. Some residual risk will remain after project implementation. Residents will still need to travel to the facilities during an emergency, which may expose them to heat or wind conditions before they reach shelter. In a large-scale or regionwide event, demand for cooling center space could exceed available occupancy at one or more sites. Because only two generators can be connected at a single site at one time, the remaining facilities would not all be protected simultaneously if multiple outages occurred at once. For example, if two generators are deployed to one location, the other two sites could experience a power failure until the equipment is repositioned. In addition, the long-term operation of the generators depends on continued fuel availability, so a major disruption to transportation or fuel supply chains could affect extended deployment. To help mitigate this potential risk, the City will continue to seek grant funding to secure additional generators for the other sites. The project will also not eliminate damage at individual private residences, including spoiled food, loss of comfort cooling, or other household impacts caused by power outages. Overall, the project substantially reduces risk by maintaining critical public facilities as operational refuge sites during extreme heat and power loss events, while acknowledging that some hazard exposure and secondary impacts will remain.

When will the mitigation activity take place?

Mitigation Activity Timeline: Project Implementation Schedule The Regional Power Resilience Hub will be implemented over a 24-month period beginning upon award and execution of the funding agreement. The schedule is sequenced to allow for final design,

required federal review, procurement, construction, commissioning, and closeout.

Months 1–4: Project Start-Up and Final Design Following award to the City, project management, engineering, and grant administration activities will commence. During this phase, the current 90% design documents will be completed to 100% bid-ready plans and specifications. Internal grant management, financial tracking, and reporting procedures will also be established.

Months 1–6: Federal Review and Compliance (Go/No-Go Milestone 1) In parallel with final design, the City will complete all required federal environmental and historic preservation review requirements, including Section 106 compliance. Milestone 1 evaluates whether full EHP clearance and State Historic Preservation Office (SHPO) approvals are officially granted to authorize ground-disturbing activities. All documentation necessary for FEMA review will be submitted prior to construction authorization.

Months 6–8: Procurement (Go/No-Go Milestone 2) Upon completion of federal clearance, the City will initiate a competitive procurement process for both the generator units and site construction work. Milestone 2 evaluates whether contract awards are successfully executed within budget and whether vendors can guarantee manufacturing within the performance period. All procurement actions will comply with 2 CFR 200 Uniform Guidance to ensure open competition, cost reasonableness, and full federal compliance.

Months 8–18: Manufacturing and Site Construction This phase accounts for generator manufacturing lead times and site construction at the three designated facilities. Work will include installation of concrete pads, conduit trenching, manual transfer switches, and quick-connect docking stations. Construction will be coordinated with equipment delivery schedules to maintain efficiency and reduce delay risk.

Months 18–24: Commissioning and Closeout Following delivery and installation, the City will complete commissioning, full-load bank testing, and operational verification at each site. Staff training and deployment exercises will be conducted prior to closeout. The final phase will

Explain why this project is the best alternative. What alternatives were considered to address the risk and why was the proposed activity considered the best alternative?

include financial reconciliation, project documentation, and submission of closeout materials to FEMA.

The proposed Regional Power Resilience Hub is the best alternative because it addresses the identified risk in a cost-effective, flexible, and implementable way while providing a high level of protection for critical facilities. It achieves life-safety outcomes without the higher capital and maintenance burden of fully duplicative fixed systems, and it is supported by a strong Benefit-Cost Analysis showing that the project is cost-effective under FEMA standards. Several alternatives were considered. The no-action alternative was rejected because it would leave the identified facilities vulnerable to prolonged outages during extreme heat events, creating unacceptable risk to life safety and disrupting access to cooling, shelter, lighting, and essential services for the surrounding community. This option does not reduce risk and is inconsistent with the project's mitigation objectives. A fully static generator at each site was also considered. While this would provide backup power, it would require greater capital investment, increase long-term maintenance obligations, and limit the use of the equipment to a single facility. That approach was less efficient than a shared mobile system and did not provide the same operational flexibility or regional value. Solar and battery microgrids were also evaluated. Although these systems may be appropriate for some applications, they were not selected because they would require substantial additional investment to support the sustained electrical load needed for cooling centers during extended outages. They also would not provide the same immediate and indefinite emergency power capability as the proposed generator-based solution. The proposed split-fleet model was selected because it provides a practical balance of readiness, reliability, and flexibility. The mobile generators can support the three designated refuge facilities and can also be repositioned, if needed, to support other critical municipal infrastructure or regional mutual aid needs. This makes the project more adaptable than fixed alternatives and increases the overall value of the federal

Please identify the entity that will perform any long-term maintenance and provide a maintenance, schedule and cost information. The subapplicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed?

investment. In short, the proposed activity was selected because it provides the most effective and defensible means of reducing risk, protecting life safety, and preserving critical community functions during extreme heat and prolonged power loss.

The City of Henderson will be responsible for all long-term maintenance and operational upkeep of the Regional Power Resilience Hub following project completion. As the owner and operator of the affected facilities, the City will assume full responsibility for routine inspections, equipment servicing, fuel management, testing, replacement of consumable parts, and any necessary repairs to maintain the system in a state of readiness. Maintenance will be performed through the City's existing facilities and public works maintenance framework, consistent with standard municipal asset management practices. This will include scheduled inspections of the generator units, transfer switches, quick-connect connections, electrical components, pads, and associated site improvements. Routine testing will be conducted to confirm operability and readiness for emergency deployment. Preventive maintenance activities will also include battery checks, fluid replacement, load testing, and visual inspection of all permanent and mobile components. The City will carry these responsibilities on an ongoing basis after project closeout. While specific maintenance intervals will follow finalized vendor documentation and internal facility procedures, the City estimates the total ongoing annual maintenance cost for the system to be \$7,000 (included in the BCA annualization amount), which the City has committed to absorbing through its existing operational budget structure. This guarantees the project remains functional, reliable, and available for emergency use over the useful life of the improvements. Overall, the City of Henderson, as the prime applicant and facility owner, is the responsible entity for long-term maintenance and associated costs after project completion.

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Design Plans Binder-Emergency Shelter exhibits(SM).pdf	06/25/2026	david.lasic@cityofhenderson.com	Scope of Work Attachments	90% design plans	

Continue

Regional Power Resilience Hub

Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

Task Name Months 1-4: Project Start-Up and Final Design	Start Month 1	Task Duration (in Months) 4 months	Task Description Following award to the City, project management, engineering, and grant administration activities will commence. During this phase, the current 90% design documents will be completed to 100% bid-ready plans and specifications. Internal grant management, financial tracking, and reporting procedures will also be established.
Task Name Months 1-6: Federal Review and Compliance (Go/No-Go Milestone 1)	Start Month 1	Task Duration (in Months) 6 months	Task Description In parallel with final design, the City will complete all required federal environmental and historic preservation review requirements, including Section 106 compliance. Milestone 1 evaluates whether full EHP clearance and State Historic Preservation Office (SHPO) approvals are officially granted to authorize ground-disturbing activities. All documentation necessary for FEMA review will be submitted prior to construction authorization.
Task Name Months 6-8: Procurement (Go/No-Go Milestone 2)	Start Month 6	Task Duration (in Months) 3 months	Task Description Upon completion of federal clearance, the City will initiate a competitive procurement process for both the generator units and site construction work. Milestone 2 evaluates whether contract

awards are successfully executed within budget and whether vendors can guarantee manufacturing within the performance period. All procurement actions will comply with 2 CFR 200 Uniform Guidance to ensure open competition, cost reasonableness, and full federal compliance.

Task Name

Months 8-18:
Manufacturing and Site
Construction

Start Month

8

Task Duration

(in Months)

11 months

Task Description

This phase accounts for generator manufacturing lead times and site construction at the three designated facilities. Work will include installation of concrete pads, conduit trenching, manual transfer switches, and quick-connect docking stations. Construction will be coordinated with equipment delivery schedules to maintain efficiency and reduce delay risk.

Task Name

Months 18–24:
Commissioning and
Closeout

Start Month

18

Task Duration

(in Months)

7 months

Task Description

Following delivery and installation, the City will complete commissioning, full-load bank testing, and operational verification at each site. Staff training and deployment exercises will be conducted prior to closeout. The final phase will include financial reconciliation, project documentation, and submission of closeout materials to FEMA.

Estimate the total duration of your proposed activities **24**
(in months).

Proposed project start and end dates

Start Date

2027-10-01

End Date

2029-09-30

[Continue](#)

Regional Power Resilience Hub

Location

Introduction

Project location

Provide a detailed description of the proposed project's location.

The proposed project is located within the City of Henderson, Nevada, encompassing a 150-square-mile municipal service area. While the two 500kW mobile generators are portable assets designed for regional deployment, the physical construction of the electrical docking stations and manual transfer switches will occur at three fixed geographic hubs: Heritage Park Senior Facility: 300 S. Racetrack Rd., Henderson, NV 89015 (Lat: 36.033580, Long: -114.945530) Downtown Recreation Center: 50 E. Van Wagenen St., Henderson, NV 89015 (Lat: 36.035510, Long: -114.985590) Henderson Multi-Generational Center: 250 S. Green Valley Pkwy., Henderson, NV 89012 (Lat: 36.025270, Long: -115.084210) This geographic distribution strategically establishes a "Resource-Flexible Resilience Grid" across the city. The primary service area for these three hubs encompasses approximately 47,000 residents. Specifically, the project targets historically underserved census tracts within the 89015 and 89012 zip codes, which are identified as having "High Vulnerability" under the CDC Social Vulnerability Index (SVI). By geographically positioning these resilience hubs in these specific corridors, the project directly mitigates extreme heat risks for Henderson's most at-risk populations, specifically prioritizing low-to-moderate-income (LMI) neighborhoods and high-density senior communities.

Latitude	36.033580
Longitude	-114.945530

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Project benefiting area

Provide a detailed description of the proposed project's benefiting area.

The Regional Power Resilience Hub will serve three critical service areas in the City of Henderson, Nevada, within ZIP codes 89015 and 89012. Collectively, these areas include approximately 47,000 residents and represent a concentrated population at risk of extreme heat exposure during extended utility outages. The benefiting area was selected based on elevated vulnerability to heat, weather, and potentially targeted impacts and power failures, particularly among older adults, individuals with disabilities, and low-to-moderate-income households. Approximately 20.8% of residents are age 65 or older, and 12.6% live with a disability with these service boundaries. These conditions increase the risk of life-safety impacts during prolonged outages when access to cooling, transportation, and alternate shelter may be limited. The project area is supported by federal vulnerability screening tools, including the CDC Social Vulnerability Index and the Climate and Economic Justice Screening Tool, which identify these neighborhoods as higher-risk areas. This reinforces the project's mitigation purpose by targeting locations where resilience investments will reduce future hazard impacts. The three interconnected refuge sites serve distinct but complementary roles in the community:

- **Heritage Park Senior Facility Zone (89015):** Approximately 15,000 residents, with a high concentration of older adults.
- **Downtown Recreation Center Zone (89015):** Approximately 12,000 residents, characterized by higher-density housing and greater heat-island exposure.
- **Henderson Multi-Generational Center Zone (89012):** Approximately 20,000 residents, serving a broad family-oriented population in Green Valley.

Risk Reduction Benefits By providing redundant power and cooling at these sites, the project will maintain safe refuge operations during grid outages, reduce

the risk of heat-related illness and mortality, and limit emergency evacuation or displacement. The project will strengthen community resilience by ensuring that vulnerable residents have access to reliable, life-sustaining services during prolonged power failures. In addition, the project will reduce the potential for public health and safety impacts associated with extreme heat and utility disruption.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Project impact area

Provide a detailed description of the proposed project's impact area.

Immediate Physical Footprint (Site Interventions)
The primary physical impact area consists of the construction footprints within three distinct municipal properties owned and operated by the City of Henderson: • Heritage Park Senior Facility: Located at 300 S. Racetrack Road. • Downtown Recreation Center: Located at 105 W. Basic Road. • Henderson Multi-Generational Center: Located at 250 S. Green Valley Parkway. Within these properties, the direct physical impact involves civil and electrical modifications, including the excavation and pouring of reinforced concrete equipment pads, electrical conduit trenching, and the hardware integration of manual transfer switches and quick-connect docking stations into each building's primary electrical service. Site improvements will also provide localized environmental benefits through thoughtful landscaping and stormwater management. Native shade vegetation and permeable surfaces will help reduce heat buildup around equipment areas and improve drainage during heavy rainfall events, supporting both operational reliability and long-term resilience. **Grid and Utility Impact Zone** The project directly interfaces with and impacts the reliability zone of the local electrical grid managed by NV Energy. Specifically, the mitigation activity stabilizes the service areas tied to three critical distribution feeders. Historical data from NV

Energy shows the below sites are subject to chronic interruptions: • Feeder WA-1208 (Water Street Substation): Serving the Downtown Recreation Center impact zone. • Feeder BL-1210 (Balboa Substation): Serving the Heritage Park impact zone. • Feeder WI-1212 (Wigwam Substation): Serving the Multi-Generational Center impact zone. By providing redundancy to these three Henderson facilities during utility emergencies, the project reduces localized strain on these specific feeders during peak extreme-heat events, preventing broader grid failures across the surrounding electrical substations.

Ancillary Operational Impact Area (Water/Wastewater) The two 500kW Cummins generator units are trailer-mounted and fully deployable, providing the ability to expand past the cooling shelters. They could also provide backup power to critical municipal water pump stations and sewer lift stations throughout Henderson. In the event of a localized blackout where the primary cooling refuges are secure or grid-connected, these mobile generators will be dispatched directly to vulnerable water infrastructure sites to maintain pressurized water delivery and sanitation services, mitigating compounding public health risks.

Regional Mutual Aid Footprint Under planned Memorandums of Understanding (MOUs) and mutual aid frameworks, the operational impact area extends regionally to neighboring jurisdictions within Clark County. If a catastrophic grid failure severely impacts adjacent communities while Henderson's infrastructure remains intact, these mobile assets can be deployed across jurisdictional borders to protect regional life-safety lifelines.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Project site inventory

Does this project subapplication propose to mitigate a **Yes** property/structure(s)? (Examples: residential home, commercial building, bridge, fire station, levee, pumping station, wastewater treatment plant, telephone pole, electric line, etc.)

Please describe how the propert(ies) will be selected upon subgrant approval. (Example: Saferoom Lottery Project, Fix the Bricks Project)

Please [download the excel template](#), and then fill out the template with building or infrastructure data.

Enter the location of the property/structure.

List of location(s) (3 locations)

Status	Location ID	Address	Inventory type	Structure type	Mitigation action
✔	127942	Heritage Park Senior Facility 300 S. Racetrack Road, Henderson, NV, Clark, 89015	Infrastructure/Utility/other	Energy	Generator
✔	127949	Downtown Recreation Center 50 E. Van Wagenen Street, Henderson, NV, Clark, 89015	Infrastructure/Utility/other	Energy	Generator
✔	127952	Henderson Multigenerational Center 250 S. Green Valley Parkway, Henderson, NV, Clark, 89015	Infrastructure/Utility/other	Energy	Generator

Continue

Regional Power Resilience Hub

Status: Submitted to
recipient

Budget

Budget cost estimate should directly link to your scope of work and work schedule. You must add at least one item(s) greater than 0 for your cost estimate. As necessary, please adjust your federal/non-federal cost shares, and add the non-federal funding source(s) you are planning to use this project. Once you have completed this section, please click the Continue button at the bottom of this page to navigate to the next section.

Add budget cost types and item(s)

First, click the Add cost type button below to add cost type cost estimate and then click the Add item(s) button to add the item(s) for the cost estimate.

Grand total: \$1,545,000.00

Budget type: Construction

►	Cost type: Cost estimate	\$1,545,000.00
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Program income (optional)

Cost share

Cost share or matching means the portion of project costs not paid by federal funds.

Proposed federal vs. non-federal funding shares

Hazard Mitigation Assistance (HMA) funds may be used to pay up to 75% federal share of the eligible activity costs. For Building Resilient Infrastructure and communities (BRIC), small impoverished communities may be eligible for up to 90% federal share. For Flood Mitigation Assistance (FMA), and severe repetitive loss (SRL) properties may be eligible for up to 100% federal share. Repetitive loss (RL) properties may be eligible for up to 90% federal share.

Cost estimate

Is this a small impoverished community? ⓘ This determines your		
	Proposed federal share	75.00 1158750.00

federal/non-federal share ratio. No	Proposed non-federal share	25.00	386250.00	Based on total budget cost: \$1,545,000.00
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Non-federal funding sources here

That portion of the total costs of the program provided by the non-federal entity in the form of in-kind donations or cash match received from third parties or contributed by the agency. In-kind contributions must be provided and cash expended during the project period along with federal funds to satisfy the matching requirements.

Funding source	% Non-federal share by source	Funding amount
► Funding source: City Funds - Match	100.00%	\$386,250.00

Additional comments.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
CMO Match Commitment Letter BRIC Grant - Final Signed.pdf	06/29/2026	stacy.dinicola@cityofhenderson.com	Budget Attachments	Match Commitment Letter	

Continue

Regional Power Resilience Hub

**Status: Submitted to
recipient**

Cost-effectiveness

How was cost-effectiveness determined for this project?

- ☒ BCA completed in FEMA's BCA toolkit
Subapplicant must attach supporting documentation.
- ☐ Pre-calculated benefits
- ☐ Substantial damage in special flood hazard area
- ☐ Other BCA methodology approved by FEMA in writing
- ☐ Not applicable
- ☐ Not applicable

What are the total project benefits? (\$) **24936783**

What are the total project cost? (\$) **1689698**

What is the benefit-cost ratio (BCR) for the entire project? **14.75**

Please provide any additional comments below (optional).

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
fema_bca_toolkit-6.0.xlsx	06/25/2026	david.lasic@cityofhenderson.com	Cost Effectiveness Attachments	No description given.	
Parks and Rec BCA (rev 4).docx	06/25/2026	david.lasic@cityofhenderson.com	Cost Effectiveness Attachments	No description given.	

[Continue](#)

Regional Power Resilience Hub

Environmental/Historic Preservation (EHP) Review Information

Introduction

An environmental/historic preservation review is required for all activities for which FEMA funds are being requested. FEMA will complete this review with the assistance of both the state or tribal government and the local applicant. It is important that you provide accurate information. If you are having problems completing this section, please contact your application point of contact.

A. National Historic Preservation Act - Historic Buildings and Structures

1. Does your project affect or is it in close proximity to any buildings or structures 50 years or more in age? **No**

B. National Historic Preservation Act - Archeological Resources

Does your project involve disturbance of ground? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- ☒ A description of the ground disturbance by giving the dimensions (area, volume, depth, etc.) and location.
- ☒ The past use of the area to be disturbed, noting the extent of previously disturbed ground.
- ☒ A USGS 1:24,000 scale or other site map showing the location and extent of ground disturbance.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- ☐ Any information about potential historic properties, including archeological sites, in the project area. Sources of this information may include SHPO/THPO, and/or the Tribe's cultural resources contact if no THPO is designated. Include, if possible, a map showing the relation of any identified historic properties to the project area.
- ☐ Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
FEMA EHP Review - Supporting Photographs and Plans.pdf	06/25/2026	stacy.dinicola@cityofhenderson.com	involveDisturbanceOfGround.attachmentIds	EHP Supporting Documents	

Filename	Date uploaded	Uploaded by	Label	Description	Action
FEMA EHP Screening Form (EF-207-FY-21-100).pdf	06/29/2026	stacy.dinicola@cityofhenderson.com	involveDisturbanceOfGround.attachmentIds	EHP Screening Form	

C. Endangered Species Act and Fish and Wildlife Coordination Act

1. Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project? **No**
2. Does your project remove or affect vegetation? **No**
3. Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water? **No**

D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)

1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as 'waters of the U.S' as identified by the US Army Corps of Engineers or on the National Wetland Inventory? **No**

E. Executive Order 11988 (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 1% annual chance floodplain, a 0.2% annual chance floodplain, a regulatory floodway, or an area prone to flooding? **No**
2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation? **No**

F. Coastal Zone Management Act

1. Is the project located in the state's designated coastal zone? **No**

G. Farmland Protection Policy Act

1. Will the project convert more than 5 acres of prime or unique farmland outside city limits to a non-agricultural use? **No**

H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)

1. Is there a reason to suspect there are contaminants from a current or past use on the property associated with the proposed project? **No**

2. Are there any studies, investigations, or enforcement actions related to the property associated with the proposed project? **No**

3. Does any project construction or operation activities involve the use of hazardous or toxic materials? **No**

4. Do you know if any of the current or past land-uses of the property affected by the proposed project or of the adjacent properties are associated with hazardous or toxic materials? **No**

I. Other Environmental/Historic Preservation Laws or Issues

1. Are there other environmental/historic preservation requirements associated with this project that you are aware of? **No**

2. Are there controversial issues associated with this project? **No**

3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project? **No**

J. Summary and Cost of Potential Impacts

Having answered the questions in parts A. through I., have you identified any aspects of your proposed project that have the potential to impact environmental resources or historic properties? **No**

[Continue](#)

Regional Power Resilience Hub

Evaluation

Is the applicant participating in the [Community Rating System \(CRS\)](#)? **Yes**

Select rating. **5**

Is the applicant a [Cooperating Technical Partner \(CTP\)](#)? **No**

Was this application generated from a previous FEMA HMA Advance Assistance or Project Scoping award or any other federal grant award, or the subapplicant is a past recipient of Building Resilient Infrastructure and Communities (BRIC) non-financial Direct Technical Assistance? **No**

Has the applicant adopted building codes consistent with the [international codes](#)? **Yes**

Year of building code **2024**

Please provide the building code. **15.09 attached**

Have the applicant's building codes been assessed on the [Building Code Effectiveness Grading Schedule \(BCEGS\)](#)? **Yes**

Select rating. **3**

Describe involvement of partners to enhance the mitigation activity outcome.

To strengthen regional resilience, the City will also pursue coordination with neighboring jurisdictions, such as the City of Las Vegas and Clark County, through mutual aid agreements. In the event that an adjacent community experiences a power failure affecting critical infrastructure, the mobile units may be deployed to support life-safety operations where they are most needed. This regional deployment strategy improves the overall value of the investment and expands the project's ability to support emergency response across Clark County.

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
BCEGS Certification Letter - Henderson NV.pdf	06/22/2026	david.lasic@cityofhenderson.com	Evaluation Attachments	BCEGS Certification Letter	
BCEGS Report - Henderson NV.pdf	06/22/2026	david.lasic@cityofhenderson.com	Evaluation Attachments	BCEGS Report	
Ordinance 4137.pdf	06/22/2026	david.lasic@cityofhenderson.com	Evaluation Attachments	Building Code Adoption Ordinance	
Ordinance 4084.pdf	06/22/2026	david.lasic@cityofhenderson.com	Evaluation Attachments	Building Code Adoption Ordinance	
2024 IBC Amendments Final20251231.pdf	06/22/2026	david.lasic@cityofhenderson.com	Evaluation Attachments	2024 International Building Code Adoption	

[Continue](#)