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SOUTHERN UNIVERSITY AND A&M COLLEGE
BATON ROUGE CAMPUS
REQUEST FOR PROPOSAL # 50016-10345
ROOFING/SOLAR ENERGY PRODUCTION AND ENERGY CONSERVATION

PROPOSAL DUE DATE: OCTOBER 14, 2025 @ 3:00 PM

Engineer: Morgan Watson, PE

Ph. 225-603-4100

Email: morgan_watson@subr.edu or morganmwatson@yahoo.com

All times are CTS

ADVERTISEMENT DATES: 9/5/25, 9/12/25, 9/15/25

MANDATORY PRE-BID CONFERENCE: September 16, 2025 @ 10:00 AM

Location:

Physical Plant Department
Benjamin H. Kraft Building
515 James L. Hunt Street
Southern University
Baton Rouge Campus
Site Telephone No. 225-771-4741

DEADLINE TO SUBMIT INQUIRIES: September 26, 2025 by 5:00 PM

SUBMIT INQUIRIES TO: Linda Antoine, Director of Purchasing
& Morgan Watson, Engineer
linda_antoine@subr.edu
morgan_watson@subr.edu
morganmwatson@yahoo.com

DEADLINE TO RESPOND TO INQUIRIES: October 3, 2025 by 5:00 PM

Note: Responses to inquiries/Addenda are posted on LAPAC (LA Procurement Website)
LA State Procurement website: <https://wwwcfprd.doa.louisiana.gov/osp/lapac/pubMain.cfm>

It is the responsibility of the vendor to check LAPAC for addenda.

We highly recommend registering with LA State Procurement and LAPAC

DEADLINE TO SUBMIT PROPOSAL:

October 14, 2025 - 3:00 PM

PROPOSAL DELIVERY ADDRESS:

Southern University
Purchasing Department
8100 James J. Prestage Street or
Post Office Box 9534
J. S. Clark Administration Bldg. Annex
First Floor
Baton Rouge, La 70813
Ph. 225-771-2804 or 771-4587

Online link to submit proposals:

<http://www.sus.edu/bidcertification>

SOUTHERN UNIVERSITY AND A & M COLLEGE
PURCHASING DEPARTMENT
Post Office Box 9534

J.S. Clark Administration Annex Building-James J. Prestage Drive-1st Floor East
Baton Rouge, Louisiana 70813

REQUEST FOR PROPOSAL: RFP-50016-10345 Roofing/Solar Energy Production and Energy Conservation

Bids will be received at the above office until **October 14, 2025 @ 3:00 PM** and at that time publicly opened and read. Proposals received after above specified time and date will be returned unopened.

BID OF:

(Company's Name)

ADDRESS:

(Company's Address)

Bids shall be mailed to:

Southern University
Purchasing Department
Post Office Box 9534
Baton Rouge, Louisiana 70813

As an alternative, bids may be hand delivered to:

Southern University
Purchasing Department
1st Floor East – James L. Prestage Drive
J. S. Clark Administration Annex Building
Baton Rouge, Louisiana 70813

Use link to submit electronic proposal:

<http://www.sus.edu/bidcertification>

Bidders are solely responsible for ensuring timely delivery of their bids. The Purchasing Department is not responsible for any delays caused by bidders' chosen means of bid delivery. Failure to meet bid opening date and time result in rejection of bids. Bid must comply with LA. R.S.39:1551-1736.

Inquiries/Addenda are posted on LAPAC at <https://www.cfprd.doa.louisiana.gov/OSP/LAPAC/Agency/outMain.cfm>. NOTE: REGISTER YOUR COMPANY WITH LAPAC-LOUISIANA STATE PROCUREMENT

Contractor certifies that specifications have been carefully examined and/or plans and General Terms and Conditions of the bid documents, bid inquiries form, insurance requirements and have personally inspected the site; and that there is a clear understanding of said documents. Contractor is to provide necessary tools, machinery, apparatus and other means of construction and to furnish all labor and materials specified in the contract, or called for by specifications necessary to complete and finish in a thorough and workmanlike manner, the proposed:

In accordance with R.S. 37:2150-2192 Commercial Contractors bid projects for the State of Louisiana, whose value is \$50,000 are required to own a Louisiana Contractor's License. The La. Contractor's License Number shall be placed on the outside of the bid envelope.

Bidder:

Company's Name

Signature:

Evidence of authority to submit the bid shall be required in accordance with R.S. 39:1594 (C)(4).

Print Name:

Title:

Date:

Telephone Number:

Fax Number:

LA State License Number:

LA Fire Marshal License No. (if applicable)

FEIN/TAX ID #:

DUNS NUMBER

Email Address:

RFP # 50016-10345

Place this document on front page of your proposal

**ADVERTISEMENT
REQUEST FOR PROPOSAL (RFP)
NUMBER 50016-10345
SOUTHERN UNIVERSITY AND A&M COLLEGE BATON ROUGE
ROOFING/SOLAR ENERGY PRODUCTION AND ENERGY CONSERVATION
OCTOBER 14, 2025 @ 3:00 PM**

mailed or hand-delivery

Linda Antoine, Director

Southern University
Purchasing Department
Post Office Box 9534
Baton Rouge, Louisiana 70813

Southern University
Purchasing Department
8100 James L. Prestage Drive
J. S. Clark Administration Bldg. 1st Fl
Baton Rouge, Louisiana 70813

Electronic system to submit RFQ:

<http://www.sus.edu/bidcertification>

Proposers are required to submit proposal online/electronic and to mail or hand-deliver twelve (12) copies and one (1) USB drive.

Southern University is interested in rapid, cost-effective deployment of joint responsibility efforts toward roofing/solar PV and ground-mounted solar energy systems as part of a strategy to reduce increased energy cost, while realizing cost savings for the value of the roofing repairs added into the project. A selected roofing/solar/electrical project developer/financer will provide excellence and timeliness as well as hold joint responsibility for turnkey roofing, solar PV, and LED lighting system design, permitting, construction, operations and maintenance, plus an understanding of the unique requirements for all roofing required, and provide an investor willing to finance the solutions and processes up to 25 years. Upon selection of a roofing/solar/electrical project developer/financer, Southern University intends to release a public statement regarding the partnership. No performance-based energy efficiency contract will be awarded as a result of this RFP.

Engineer for this project: Morgan M. Watson, PE

Ph. 225-603-4100

Email: morganmwatson@yahoo.com or morgan_watson@subr.edu

Any person requiring special accommodations should notify the Purchasing Office of the type(s) of accommodation required not less than seven (7) days before the pre-bid or bid opening date. Additional contact is Wilbert Rossett, Southern University Safety Department at wilbert.rossett@sus.edu or 225-771-3101.

All times are CTS

Mandatory pre-bid conference date: September 16, 2025 @ 10:00 AM

Mandatory pre-bid conference location:

Physical Plant Department
Benjamin H. Kraft Building
515 James L. Hunt Street
Southern University
Baton Rouge Campus
Site Telephone No. 225-771-4741

Inquiries will be accepted until September 26, 2025 until 5:00 PM. Inquiries shall be submitted to Linda Antoine at linda_antoine@subr.edu and Morgan Watson at morgan_watson@subr.edu or morganmwatson@yahoo.com

Responses to inquiries: October 3, 2025 by 5:00 pm

ALL BID SPECIFICATIONS AND ADDENDA/INQUIRIES CAN BE OBTAINED BY ACCESSING LAPAC WEBSITE

<https://www.cfprd.doa.louisiana.gov/osp/lapac/pubMain.cfm>.

It is the responsibility of the vendor to check LAPAC for addenda.

We highly recommend registering with the Office of Louisiana State Procurement and with LAPAC (LA State Procurement website)

Proposal shall be received no later than 3:00 pm on October 14, 2025 –3:00 PM

RFQ may be withdrawn by written, telegraphic or received at the address or submittal portal designated prior to the time set for RFQ opening. Proposals received after closing time will be returned unopened. Evidence of authority to submit the bid shall be required in accordance with R.S. 38:2212(a)(1)(c) and/or R.S. 39:1594(c)(2)(d).

The Southern University System is a participant in the Louisiana for the Small Entrepreneurships Program (the Hudson Initiative) and the Louisiana Initiative for Veterans and Service-Connected Disabled Veterans-Owned Business Small Entrepreneurships. Bidders are encouraged to consider participation. A list of certified vendors and additional information can be obtained from website <http://www.ledsmallbiz.com>. Potential participants may also register at this website.

Please contact Mary Jane Spruel, Assistant Director @ (225) 771-2800 or maryjane_spruel@subr.edu for questions concerning this advertisement.

The University reserves the right to award all or done and to reject any and all proposals and to waive any informalities incidental thereto.

Request for Proposals Qualifications will be accepted from contractors for Building & Construction 72000000; Management & Business Professionals 8000000 and Roofing 72101600

SOUTHERN UNIVERSITY & A&M COLLEGE
Linda A. Antoine, Director of Purchasing

SOUTHERN UNIVERSITY IS
AN EQUAL OPPORTUNITY EMPLOYER

DATES ADVERTISED
9/5/2025, 9/12/2025 & 9/15/2025

**MANDATORY PRE-BID CONFERENCE OCTOBER 3, 2025 10:00 AM
PROJECT: ROOFING/SOLAR ENERGY PRODUCTION AND ENERGY
CONVERSATION**

LOCATION: BATON ROUGE CAMPUS

BID DUE DATE AND TIME: OCTOBER 14, 2025 @ 3:00 PM

BID NUMBER 50016-10345

MANDATORY SITE VISIT DATE: OCTOBER 3, 2025 by 5:00 PM

PROPOSAL NUMBER 50016-10344

LATE ARRIVALS CANNOT PARTICIPATE IN THE BID PROCESS

It is the responsibility of the bidder to inspect job site, verify any measurements and/or supplies needed prior to submitting a bid price on this project. Each bidder shall fully acquaint himself with conditions relating to construction and labor so that he may fully understand the facilities, difficulties and restrictions attending the execution of work under this contract. If vendor finds conditions that disagree with the physical layout as described in the bid, or any other features of the specifications that appear to be in error, same shall be noted on proposal. Failure to do so will be interpreted that bid is as specified. No consideration or allowance will be granted the Contractor for failure to visit the site or for any alleged misunderstanding of the materials to be furnished or the work to be done.

JOB SITE VISIT LOCATION:

Physical Plant Department

Benjamin H. Kraft Hunt Street-515 James L. Hunt Street

Southern University-Baton Rouge Campus

Site Telephone No. 225-771-4741

The signed statement certifies the vendor's name listed below has visited the proposed site and is familiar with all conditions surrounding fulfillment of the specifications for this project.

COMPANY _____

BY _____

DATE _____

Note: Questions not answered at Site Visit or any additional questions shall be submitted in writing to the Director of Purchasing, Linda A. Antoine at linda_antoine@subr.edu or Morgan M. Watson, PE, morgan_watson@subr.edu or morganmwatson@subr.edu

Note: Responses to inquiries/Addenda are pasted on LaPAC (LA Procurement Website)
LA State Procurement website:

<https://wwwcfprd.doa.louisiana.gov/OSP/LaPAC/Agency/outMain.cfm>

It is the responsibility of the vendor to check LAPAC for addenda.

JOB SITE VERIFIED BY DESIGNATED SOUTHERN UNIVERSITY EMPLOYEE:

SIGNATURE

Return this sheet with proposal

**SOUTHERN UNIVERSITY AND A&M COLLEGE
BATON ROUGE CAMPUS
REQUEST FOR PROPOSAL**

PROJECT: ROOFING/SOLAR ENERGY PRODUCTION AND ENERGY CONSERVATION

LOCATION: BATON ROUGE CAMPUS

BID DUE DATE AND TIME: OCTOBER 14, 2025 @ 3:00 PM

RFP NUMBER 50016-10345

Bids submitted are subject to provisions of La.R.S.38:2212 Purchasing Rules and Regulations; Executive Orders; and the General Terms and Conditions, listed in this Invitation for Bid. Southern University reserves the right to award items separately, grouped or on an all or none basis and to reject any or all bids and waive any informalities.

PROPOSALS MAY BE SENT BY MAIL OR HAND-DELIVERED TO:

Bids should be mailed to:

Southern University
Purchasing Department
Post Office Box 9534
Baton Rouge, Louisiana 70813

As an alternative, bids may be hand delivered to:

Southern University
Purchasing Department
1st Floor East-James L. Prestage Drive
J. S. Clark Administration Building
Baton Rouge, Louisiana 70813

Use link to submit electronic proposal:

<http://www.sus.edu/bidcertification>

MANDATORY PRE-BID CONFERENCE & SITE VISIT: September 16, 2025 @ 10:00 AM

LOCATION: Physical Plant Department

Benjamin H. Kraft Building

515 James L. Hunt Street

Baton Rouge Campus

INQUIRIES:

No negotiations, decisions, or actions will be executed by any bidder as a result of any oral discussion with any University employee or State Consultant. Only those transactions which are in writing, sent to **Linda A. Antoine, Director of Purchasing and Morgan M. Watson, will be considered as valid.**

Email: linda_antoine@subr.edu

morganMwatson@yahoo.com or morgan_watson@subr.edu

Inquiries will be accepted through September 26, 2025 by 5:00 PM

Responses to Inquiries: October 3, 2025 by 5:00 PM

INSTRUCTIONS TO BIDDERS

1. Bid Forms

All written bids, unless otherwise provided for, must be submitted on, and in accordance with forms provided and properly signed in ink. Bids submitted in the following manner will not be accepted:

Bid containing no signature indicating intent to be bound

(1) Bid filled out in pencil

(2) Bid not submitted on University standard forms

Bids must be received at the address specified in the Invitation for Bid prior to bid opening time in order to be considered. .

2. Envelope (if mailed)

Bidders are requested to submit bid package in a sealed envelope of your choice that is clearly marked identifying the *company's name, complete address, bid number, time and date of bid opening, and license number, if applicable.*

Bidder is responsible for means of delivery of bid.

1 Initial and return with proposal _____

Louisiana Contractors License Number shall be placed on the outside of the envelope.

3. Standards of Quality

Any product or service bid shall conform to all applicable federal, state and local laws, regulations and the specifications contained in the IFB. Unless otherwise specified in the IFB, any manufacturer's name, trade name, brand name, or catalog numbers used in the specifications is for the purpose of describing the quality level, performance and characteristics required. Bidder must specify the brand and model number of the product offered in his/her bid. Bids not specifying brand and model numbers will be considered as offering the exact product(s) specified in the IFB.

4. Descriptive Information

Bidders proposing an equivalent brand or model should submit information with bid (such as illustrations, descriptive literature, technical data) sufficient for the University to evaluate quality, suitability and compliance with the specifications in the IFB. Failure to submit descriptive information may cause bid to be rejected. Any change made to a manufacturer's published specification submitted for a product should be verifiable by the manufacturer. If item(s) bid do not fully comply with specifications (including brand and/or product number), bidder must state in what respect the item(s) deviate. Failure to note exceptions on the bid form will not relieve the successful bidder(s) from supplying the actual products requested.

5. ON-CAMPUS ATTENDANCE REQUIREMENTS (COVID-19)

The Center for Disease and Control (CDC) recommends social distancing and wearing masks to prevent the spread of the Corona Virus (COVID-19).

6. Prices

Unless otherwise specified by the Purchasing Department, bid prices must be complete, including transportation, prepaid by bidder to destination. In the event of extension errors, the unit price shall prevail.

7. Payment Terms

Payment is to be made within thirty (30) days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. Delinquent payment penalties are governed by **L.R.S. 39:1695**.

8. Deliveries

Bids may be rejected if the delivery or completion time indicated is longer than that specified in the IFB.

9. Vendor Invoices

Invoices or AIA payment form shall reference the Southern University purchase/release order number, vendor's packing list/delivery ticket, ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order and should show the amount of any prompt payment discount and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier will not be accepted. Terms are net 30.

10. Tax Information/State of Louisiana

Vendor is responsible for including all applicable taxes in the bid prices. Southern University is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc. In accordance with Act Number 1029 of the 1991 Regular Session, effective September 1, 1991 state agencies will no longer be required to pay state sales tax.

11. New Products

Unless specifically called for, all products for purchases must be new (never previously used) and the current model and/or packaging. The manufacturer's standard warranty will apply unless otherwise specified in the IFB.

12. Contract Renewals, Multi-Year Contracts (if applicable)

Upon agreement of Southern University and the contractor, an open-ended requirements contract may be extended for two (2) additional twelve (12) month periods at the same prices, terms and conditions. In such cases, the total contract term cannot exceed thirty six (36) months.

13. Contract Cancellation

Southern University has the right to cancel any contract, in accordance with Purchasing Rules and Regulations, for cause, including but not limited to, the following: (1) failure to deliver within time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be

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delivered in good condition; (3) misrepresentations by the contractor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the state; (5) conflict of contract provisions with constitutional or statutory provision of state or federal law; (6) any other breach of contract.

14. AWARD AND EXECUTION OF CONTRACT:

The owner shall incur no obligation to the contractor until the contract between the owner and contractor is duly executed. If the contractor is notified of the acceptance of the bid within thirty (30) days of the opening bid date, contractor agrees to execute and deliver to owner, Performance and Payment Bond and Certificate of Insurance, a copy of which is attached to the Contract Documents, within ten (10) working days after notice from the Owner that the instrument is ready for signature.

15. Fiscal Funding Clause (Renewal Contracts Only)

In accordance with LA R.S.39:1615 (c) and (e), any contract entered into by the State of Louisiana and Southern University shall include the following Fiscal Funding Clause:

C. Termination due to unavailability of funds in succeeding years. When funds are not appropriated to support continuation of performance in a subsequent year of a multiyear contract, the contract for such subsequent year shall be terminated. When a contract is terminated under these conditions, no additional funds shall be paid to the contractor as a result of such action. E. With respect to all multiyear contracts, there shall be no provisions for a penalty to the state for the cancellation or early payment of the contract. The continuation of this contract is contingent upon the appropriation of funds to fulfill the requirements of the contract by the legislature. All proposers should be aware that our legislative process is such that it is often impossible to give prior notice of the non-appropriation of funds.

16. Default of Contactor

Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the state had determined the contractor to be in default, the state reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.

17. Order of Priority

In the event there is a conflict between the Instructions to Bidders the General Terms and Conditions will govern.

18. Applicable Law

All contracts will be construed in accordance with and governed by the laws of State of Louisiana. Vendors shall be in compliance with applicable laws of the State of Louisiana and Federal Laws where applicable, to include licenses, fees and permits. Vendors are responsible for the cost of licenses, fees and permits.

19. Certification of No Suspension or Debarment (\$25,000 or more)

By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.sam.gov.

☐ **Federal Funded** ☒ **Non-Federal Funded**

20. E-VERIFY (verification of employees)

Contractor acknowledges and agrees to comply with the provisions of La R.S. 38:2212.10 and federal law pertaining to E-Verify in the performance of services under this contract.

21. Prohibited Contractual Arrangements

Per Louisiana R.S. 42:1113.a, no public servant, or member of such public servant's immediate family, or legal entity in which he is a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions and provisions.

22. Discriminatory Boycotts of Israel

This section applies to procurements with a value of \$100,000 or more and for vendors with five (5) or more employees

Prohibition of Discriminatory Boycotts of Israel

In accordance with R.S. 39:1602.1, for any contract for \$100,000 or more and for any contractor with five or more employees, the Contractor certifies that neither it nor its subcontractors are engaged in a boycott of Israel, and that the Contractor and any subcontractors shall, for the duration of this contract, refrain from a boycott of Israel. The State reserves the right to terminate this contract if the Contractor, or any Subcontractor, engages in a boycott of Israel during the term of this contract.

23. Prohibition of Companies That Discriminate Against Firearm and Ammunition Industries

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In accordance with La. R.S. 39:1602.2, the following applies to any competitive sealed bids, competitive sealed proposals, or contract(s) with a value of \$100,000 or more involving a for-profit company with at least fifty full-time employees:

Unless otherwise exempted by law, by submitting a response to this solicitation or entering into this contract, the Bidder, Proposer or Contractor certifies the following:

The company does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association;

The company will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.

24. Mutual Indemnification

Each party hereto agrees to indemnify, defend and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.

25. Fair Labor Standards Act

Contractor shall be in compliance with the **Fair Labor Standards Act 29 USC 201-6**; Establishes minimum wage, overtime pay, equal pay, recordkeeping, and child labor standards for employees or in the production of goods for interstate commerce. **By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof is in accordance with said compliance.** United States Department of Labor website: www.dol.gov/esa

26. Davis-Bacon Act (\$2,000 or more)

Contractor shall be in compliance with the **Davis-Bacon Act, 40 USC 276A-7**; ensures that laborers and mechanics employed pursuant to federally funded construction contracts, subcontracts and construction under Federal grants, will be paid wages as determined by the U.S. Secretary of Labor. **By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof is in accordance with said compliance.** United States Department of Labor website: www.dol.gov/esa

☐ Federal Funded ☒ Non-Federal Funded

27. Small Business Entrepreneurship Programs

The Southern University System is a participant in the Louisiana for the Small Entrepreneurships Program (the Hudson Initiative) and the Louisiana Initiative for Veterans and Service-Connected Disabled Veterans-Owned Business Small Entrepreneurships. Bidders are encouraged to consider participation. A list of certified vendors and additional information can be obtained from website <http://www.ledsmallbiz.com>. Potential participants may also register at this website. Businesses include minority and women.

28. Public Works Projects (R.S. 38:2227)

In accordance with the provisions of R.S. 38:2227; in awarding public works projects, any public entity is authorized to reject a proposal or bid, or not award the contract, to a business in which any individual with an ownership interest of ten percent (10%) or more, has been convicted, or has entered a plea of guilty or nolo contendere to any state felony or equivalent federal felony crime.

29. Tobacco-Free Policy

The use of tobacco products on any Southern University campus is prohibited by students, staff, faculty or visitors in all campus buildings, facilities, or property owned or leased by Southern University System and outside areas of the campus where non-smokers cannot avoid exposure to smoke; on campus grounds, facilities, or vehicles that are the property of the University; and at lectures, conferences, meetings, and social and cultural events held on school property or school grounds. The sale or free distribution of tobacco products, including merchandise on campus or at school events is prohibited.

30. Equal Opportunity Employer

Southern University and A&M College Systems of the State of Louisiana is an equal opportunity employer and looks to its contractors, sub-contractors, vendors, and suppliers to take affirmative action to effect this commitment in its operations. By submitting and signing this bid, the bidder certifies that he agrees to adhere to the mandates dictated by Title VI and VII of the Civil Rights Act of 1964, as amended; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; Section 303 of the Rehabilitation Act of 1973; Section 202 of Executive Order 11246, as amended; and the Americans with Disabilities Act of 1990. Bidder agrees that he will not discriminate in the rendering of services to and/or employment of individuals because of race, color, religion, sex, age, national origin, handicap, disability, veteran status, or any other non-merit factor. Bidder further agrees to keep informed of and comply with all Federal, State, and local laws, ordinances, and regulations which affect his employees or prospective employees. Any person who is a "Qualified Individual with a Disability" as defined by 42 USC 12131 of the American with Disabilities Act who has

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submitted a bid on this procurement and who desires to attend the bid opening, must notify this office in writing no later than seven (7) working days prior to the bid opening date of their need for special accommodations. If the requested accommodations cannot be reasonably provided, the individual will be so informed prior to the bid opening.

31. Code of Ethics

The contractor acknowledges that Chapter 15 of Title 42 of the Louisiana Revised Statutes (R.S. 42:1101 et. seq., Code of Governmental Ethics) applies to the Contracting Party in the performance of services called for in this contract. The contractor agrees to immediately notify the state if potential violations of the Code of Governmental Ethics arise at any time during the term of this contract.

32. Vendor Forms/SU Signature Authority

The terms and conditions of the SU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc. The University's chief procurement officer, or designee, is delegated sole authority to execute any vendor contracts, forms, etc. Departments are prohibited from signing any vendor forms.

33. Prosecution of Work

The work is to be done when Southern University is in operation. The contractor shall, therefore, plan the repairs and installation in specifications so as not to interfere with normal operations of the facility and shall exert effort to expedite completion of the work once it has started. It is intended that the work shall be done during normal working hours, however, should work require overtime (Saturday, Sunday and/or night working hours), the cost must be borne by the contractor at no extra compensation from the Owner (Southern University).

34. Termination of the Contract for Convenience

The State/University may terminate the contract at any time by giving thirty (30) days written notice to the Contractor of such termination or negotiating with the Contractor an effective date. The Contractor shall be entitled to payment for deliverables in progress, to the extent work has been performed satisfactorily.

35. Termination for Cause

The State may terminate this Contract for cause based upon the failure of the Contractor to comply with the terms and/or conditions of the Contract; provided that the State shall give the Contractor written notice specifying the Contractor's failure. If within thirty (30) days after receipt of such notice, the Contractor shall not have either corrected such failure or thereafter proceeded diligently to complete such correction, then the State may, at its option, place the Contractor in default and the Contract shall terminate on the date specified in such notice. The Contractor may exercise any rights available to it under Louisiana law to terminate for cause upon the failure of the Owner to comply with the terms and conditions of this contract; provided that the Contractor shall give the State written notice specifying the State's failure and a reasonable opportunity for the Owner to cure the defect.

36. Auditors

It is hereby agreed that the Legislative Auditor of the State of Louisiana and/or the Office of the Governor, Division of Administration auditors shall have the option of auditing all accounts of contractor which relate to this contract.

37. Awarded Products/Unauthorized Substitutions

Only those awarded brands and numbers stated in the SU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Purchasing Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment.

38. Acceptance

Upon written notice by the Owner, a Notice by Owner of Acceptance of Work will be executed and forwarded to the Contractor for recording with the Clerk of Court in the parish in which the work has been performed and shall furnish a clear Lien Certificate from the Clerk of Court (to the owner along with final invoice) forty-five (45) days after recordation of acceptance. Final payment of ten percent (10%) will be made at this time.

39. Guarantee

It is the intention of the specifications to secure a first-class permanent material and construction and to this end, Contractor will be held responsible for and must correct defects discovered in the work within one (1) year from acceptance. Should any materials or methods be called for, of such nature to render this guarantee impossible, written notice to this effect should be given Owner (Southern University) before signing contract and/or beginning of work; failure to do this will be construed as agreement to the strictest terms of the guarantee.

40. Clean-Up

The Contractor will be directed during the progress of work to remove and properly dispose of the resultant and debris. Upon completion, Contractor shall remove all equipment, unused materials and debris and will leave the premises in a clean and first-class condition.

41. Examination of Site

Each bidder will visit the site of the proposed project and will fully acquaint himself with conditions relating to construction and labor so that he may fully understand the facilities, difficulties and restrictions attending the execution of work under this contract. No consideration or allowance will be granted the Contractor for failure to visit the site or for any alleged misunderstanding of the materials to be furnished or the work to be done.

42. Anti-Kickback Clause

The Contractor hereby agrees to adhere to the mandate dictated by The Copeland "Anti-Kickback" ACT which provides that each Contractor or Subgrantee shall be prohibited from inducing, by any means, any person employed in the completion of work, to give up any part of the compensation to which he is otherwise entitled.

43. Clean Air Act

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 306 of the CLEAN AIR ACT which prohibits the use under non-exempt contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

44. Clean Water Act

The Contractor hereby agrees to adhere to the provisions which require compliance with all applicable standards, orders or requirements issued under Section 508 of the Clean Water Act which prohibits the use under non-exempt federal contracts, grants or loans of facilities included on the EPA list of Violating Facilities.

45. Energy Policy and Conservation Act

The Contractor hereby recognizes the mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

46. Anti-Lobbying and Debarment Act

The Contractor will be expected to comply with federal statutes in the Anti-Lobbying Act and The Debarment Act.

47. Signature Authority

A CORPORATE RESOLUTION OR WRITTEN EVIDENCE OF THE AUTHORITY OF THE PERSON SIGNING THE BID FOR THE PUBLIC WORK AS PRESCRIBED BY LOUISIANA REVISED STATUTE 38:2212 (B)(5)
A copy of the applicable signature authority document/Board Resolution or LA Secretary of State Registration must be submitted with bid.

48. Completion Time and Liquidated Damages

49. ADDITIONAL REQUIREMENTS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE PLANS (if applicable); THE PROJECT SPECIFICATIONS, AND SHALL COMPLY WITH APPLICABLE LOCAL AND STATE BUILDING CODES AS WELL AS ANY AND ALL REGULATORY AGENCY REQUIREMENTS AND LAWS, INCLUDING BUT NOT LIMITED TO OSHA, ETC. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
2. CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT, IF APPLICABLE, OF ALL CONFLICTS OR DISCREPANCIES PRESENTED IN THESE PLANS PRIOR TO THE START OF WORK.
3. ALL WORK WHETHER SHOWN OR IMPLIED, UNLESS SPECIFICALLY QUESTIONED SHALL BE CONSIDERED UNDERSTOOD IN ALL RESPECTS BY THE GENERAL CONTRACTOR AND WHO WILL BE RESPONSIBLE FOR ANY MISINTERPRETATIONS AND CONSEQUENCES THEREOF.
4. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
5. ENGINEER/ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ALL IDENTIFIED EXISTING UTILITIES NOT IDENTIFIED IN THE PLANS.
6. OWNER SHALL PROVIDE WATER FOR CLEANING OPERATIONS FROM ANY FIRE HYDRANT AT NO COST TO THE CONSULTANT.

INSURANCE REQUIREMENTS
Southern University and A&M College
Roofing/Solar Energy Production and Energy Conservation
Proposal Number 50016-10345

The Contractor shall purchase and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, its agents, representatives, employees or subcontractors.

A. MINIMUM SCOPE AND LIMITS OF INSURANCE

1. **Workers Compensation**

Workers Compensation insurance shall be in compliance with the Workers Compensation law of the State of the Contractor's headquarters. Employers Liability is included with a minimum limit of \$500,000 per accident/per disease/per employee. If work is to be performed over water and involves maritime exposure, applicable LHWCA, Jones Act, or other maritime law coverage shall be included and the Employers Liability limit increased to a minimum of \$1,000,000. **A.M. Best's insurance company rating requirement may be waived for workers compensation coverage only.**

2. **Commercial General Liability**

Commercial General Liability insurance, including Personal and Advertising Injury Liability, shall have a minimum limit per occurrence of \$1,000,000 and a minimum general aggregate of \$2,000,000. The Insurance Services Office (ISO) Commercial General Liability occurrence coverage form CG 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. Claims-made form is unacceptable.

3. **Automobile Liability**

Automobile Liability Insurance shall have a minimum combined single limit per occurrence of \$1,000,000. ISO form number CA 00 01 (current form approved for use in Louisiana), or equivalent, is to be used in the policy. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned automobiles.

B. DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and accepted by the Agency. The Contractor shall be responsible for all deductibles and self-insured retentions.

C. OTHER INSURANCE PROVISIONS

The policies are to contain, or be endorsed to contain, the following provisions:

1. **General Liability and Automobile Liability Coverage**

- a. The Agency, its officers, agents, employees and volunteers shall be named as an additional insured as regards negligence by the contractor. ISO Form CG 20 10 (current form approved for use in Louisiana), or equivalent, is to be used when applicable. The coverage shall contain no special limitations on the scope of protection afforded to the Agency.
- b. The Contractor's insurance shall be primary as respects the Agency, its officers, agents, employees and volunteers. Any insurance or self-insurance maintained by the Agency shall be excess and non-contributory of the Contractor's insurance.
- c. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.
- d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the policy limits.

2. **Workers Compensation and Employers Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the Agency, its officers, agents, employees and volunteers for losses arising from work performed by the Contractor for the Agency.

3. **All Coverage**

- a. Coverage shall not be canceled, suspended, or voided by either party (the Contractor or the insurer) or reduced in coverage or in limits except after 30 days written notice has been given to the Agency. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Contractor's policy.
- b. Neither the acceptance of the completed work nor the payment thereof shall release the Contractor from the obligations of the insurance requirements or indemnification agreement.
- c.

The insurance companies issuing the policies shall have no recourse against the Agency for payment of premiums or for assessments under any form of the policies.

- d. Any failure of the Contractor to comply with reporting provisions of the policy shall not affect coverage provided to the Agency, its officers, agents, employees and volunteers.

D. ACCEPTABILITY OF INSURERS

All required insurance shall be provided by a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located. Insurance shall be placed with insurers with a A.M. Best's rating of **A-:VI or higher**. This rating requirement may be waived for workers compensation coverage only.

If at any time an insurer issuing any such policy does not meet the minimum A.M. Best rating, the Contractor shall obtain a policy with an insurer that meets the A.M. Best rating and shall submit another Certificate of Insurance as required in the contract.

E. VERIFICATION OF COVERAGE

Contractor shall furnish the Agency with Certificates of insurance reflecting proof of required coverage. The Certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The Certificates are to be received and approved by the Agency before work commences and upon any contract renewal thereafter.

In addition to the Certificates, Contractor shall submit the declarations page and the cancellation provision endorsement for each insurance policy. The Agency reserves the right to request complete certified copies of all required insurance policies at any time.

Upon failure of the Contractor to furnish, deliver and maintain such insurance as above provided, this contract, at the election of the Agency, may be suspended, discontinued or terminated. Failure of the Contractor to purchase and/or maintain any required insurance shall not relieve the Contractor from any liability or indemnification under the contract.

F. SUBCONTRACTORS

Contractor shall include all subcontractors as insureds under its policies OR shall be responsible for verifying and maintaining the Certificates provided by each subcontractor. Subcontractors shall be subject to all of the requirements stated herein. The Agency reserves the right to request copies of subcontractor's Certificates at any time.

G. WORKERS COMPENSATION INDEMNITY

In the event Contractor is not required to provide or elects not to provide workers compensation coverage, the parties hereby agree that Contractor, its owners, agents and employees will have no cause of action against, and will not assert a claim against, the State of Louisiana, its departments, agencies, agents and employees as an employer, whether pursuant to the Louisiana Workers Compensation Act or otherwise, under any circumstance. The parties also hereby agree that the State of Louisiana, its departments, agencies, agents and employees shall in no circumstance be, or considered as, the employer or statutory employer of Contractor, its owners, agents and employees. The parties further agree that Contractor is a wholly independent contractor and is exclusively responsible for its employees, owners, and agents. Contractor hereby agrees to protect, defend, indemnify and hold the State of Louisiana, its departments, agencies, agents and employees harmless from any such assertion or claim that may arise from the performance of this contract.

Maritime (Jones Act and LHWCA) needed when work is performed over navigable bodies of water

H. INDEMNIFICATION/HOLD HARMLESS AGREEMENT

Contractor agrees to protect, defend, indemnify, save, and hold harmless, the State of Louisiana, all State Departments, Agencies, Boards and Commissions, its officers, agents, servants, employees, and volunteers, from and against any and all claims, damages, expenses, and liability arising out of injury or death to any person or the damage, loss or destruction of any property which may occur, or in any way grow out of, any act or omission of Contractor, its agents, servants, and employees, or any and all costs, expenses and/or attorney fees incurred by Contractor as a result of any claims, demands, suits or causes of action, except those claims, demands, suits, or causes of action arising out of the negligence of the State of Louisiana, all State Departments, Agencies, Boards, Commissions, its officers, agents, servants, employees and volunteers.

Contractor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demands, suits, or causes of action at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims, demands, suits, or causes of action are groundless, false or fraudulent.

Note: Successful bidder will be required to submit a certificate of insurance with Southern University as the certificate holder. Additional insurance coverage may be required after award.



**REQUEST FOR PROPOSALS
FOR
ROOFING/SOLAR ENERGY PRODUCTION
AND ENERGY CONSERVATION
FOR
SOUTHERN UNIVERSITY AND A&M COLLEGE
BATON ROUGE, LA**

August 12, 2025

**REQUEST FOR PROPOSALS FOR
ROOFING/SOLAR ENERGY PRODUCTION
AND ENERGY CONSERVATION
FOR
SOUTHERN UNIVERSITY AND A&M COLLEGE
BATON ROUGE, LA**

Issued by: The Southern University System
Director of Facility Planning
Baton Rouge, LA 70813

Contact Name: Morgan M. Watson, PE
(225)603-4100

Email: morgan_watson@subr.edu
morganmwatson@yahoo.com

RFP Date: August 22, 2025

Responses Due: September 30, 2025 at 3pm Central Time

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1. OVERVIEW

1.1. Introduction

The overall goal of this project is to repair the aged roofs on the main buildings on the SUBR land mass, and to offset the roofing cost by installing solar panels on those roofs and constructing ground-mounted solar panels on various sites on the campus that will produce at least 60% of the present electricity usage; and to reduce the campus' present energy consumption by at least 15% by installing LED lights through the campus. **The purpose of this Request for Proposals (RFP) is to find a highly qualified roofing/solar/electrical project developer/financer** for installation and operation of the roofing/solar photovoltaic (PV) and ground-mounted solar energy systems, and to install LED lighting (with controls) on various Southern University and A&M College, Baton Rouge, LA (SUBR) properties. Interested roofing, solar, and electrical project developers ("Respondents") are requested to provide a full proposal for the development of roofing repairs and solar power systems, along with the installation of LED lighting in various buildings and outdoor areas for SUBR. Proposals received from this RFP will assist SUBR in making decisions to pursue this project, and engage in contract discussions with Respondents.

SUBR is interested in rapid, cost-effective deployment of joint responsibility efforts toward roofing/solar PV and ground-mounted solar energy systems as part of a strategy to reduce increased energy costs, while realizing cost savings for the value of the roofing repairs added into the project. **A selected roofing/solar/electrical project developer/financer will provide excellence and timeliness as well as hold joint responsibility for turnkey roofing, solar PV, and LED lighting system design, permitting, construction, operation, and maintenance, plus an understanding of the unique requirements for all roofing required, and provide an investor willing to finance the solutions and processes up to 25 years.** Upon selection of a roofing/solar/ electrical project developer/financer, SUBR intends to release a public statement regarding the partnership. **NO PERFORMANCE-BASED ENERGY EFFICIENCY CONTRACT WILL BE AWARDED AS A RESULT OF THIS RFP.**

1.2. About The Southern University System

What began as a dream more than 145 years ago is today a living legacy of determination, commitment, and success. Founded in 1880 in New Orleans and relocated to Baton Rouge in 1914, the Southern University and A&M College System is the only historically black university system in America. The System has a diverse enrollment of more than 12,000 students with locations in Louisiana's capital city of Baton Rouge, and New Orleans, and Shreveport. A law school and agricultural and research center are also located in Baton Rouge. The System campuses appeal to students with various undergraduate, graduate, and professional degree offerings. Widespread accomplishments of faculty and alumni have positively impacted society at every level. With a strong foundation, a proven record of achievement, and a fresh vision for the future, Southern University's charge to advance the mission of its founders' remains at the heart of our administrators, faculty, students, and alumni. The campuses of the Southern University and A&M College System pride themselves with distinct learning environments, each having its own identity and brand. Despite the differences in the constituencies that they serve, the commonality of all campuses lies in providing quality educational experiences that are affordable and accessible to all. Each of our campuses is deeply rooted in their respective communities and is responsive to regional intellectual, cultural, and labor needs by supporting economic and workforce development that bring benefits to the state and region.

Southern University RFP for Roofing/Solar Energy Production and Energy Conservation

1.2.1 About The Southern University and A&M College in Baton Rouge (SUBR)

Southern University and A&M College in Baton Rouge (SUBR) is the System's flagship campus with an approximate 520-acre landmass comprising the following colleges and centers:

- College of Agricultural, Family and Consumer Sciences
- College of Business
- Nelson Mandela College of Government and Social Sciences
- College of Humanities and Interdisciplinary Studies
- College of Nursing and Allied Health
- College of Sciences and Engineering
- University College
- Agricultural Research and Extension Center (also has a 385-acre farm)
- Law Center

Mission: To provide a student-focused teaching and learning environment that creates global leadership opportunities for a diverse student population where teaching, research, service, scholarly and creative expectations for students and faculty are achieved through the bachelor's, master's, and doctoral programs offered at the institution via different instructional modalities and via public service.

Vision: To provide access and opportunity to students and matriculate graduates who are equipped to excel in a 21st century, knowledge-based, global economy.

SUBR is pursuing this roofing/solar energy production and energy conservation option on its entire land mass in an effort to help reduce electricity costs and to reach its cost savings and budget reduction goals.

1.3. RFP Timeline

Below is a list of major milestone dates for this RFP process. SUBR maintains the right to adjust the schedule at its discretion. **The Mandatory Pre-proposal Conference with Tour is on-site at SUBR and attendance is required in order to qualify to respond to this RFP.**

Event	Target Dates
RFP Issued	August 15, 2025
Open Questions (Emailed to contact above)	August 19, 2025
Mandatory Pre-proposal Conference with Tour	August 27, 2025 at 9:00am Central Time
RFP Questions Due No Later Than	September 5, 2025
RFP Responses Due	September 11, 2025 at 3:00pm Central Time
Selection of Most Qualified Proposer	October 1, 2025
Award and Execution of Contract	October 15, 2025

SPECIAL NOTE: President Trump's "One Big Beautiful Bill Act" rapidly phases out tax credits for all solar energy projects that have started construction before June 30, 2026, and because of this strict timeline, the goal is to have this project constructed and on-line by November 1, 2027.

Southern University RFP for Roofing/Solar Energy Production and Energy Conservation

2. PROJECT SCOPE

2.1 Roofing, Solar PV, and Energy Conservation Projects

SUBR is seeking a partner for developing a turnkey proposal for roofing, solar PV, and energy conservation projects throughout its landmass. The focus for project development is designing, engineering, permitting, financing, installing, operating, and maintaining on-site solar PV and LED lighting systems with controls to reduce SUBR's operating costs as well as provide the same for specified roofing projects. SUBR has a strong preference for long-term leasing or equivalent financing mechanisms that deliver similar risk, cost, and performance characteristics. The contemplated Agreement will include overall terms and conditions to enable and encourage rapid pursuit of all viable roofing, solar, and lighting projects by the selected Respondent, along with performance criteria and operational and management expectations.

The initial phase is planned to begin immediately after the **October 15, 2025 award date** with a target of completing the AguaSeal acrylic monoseal roofing systems on the roofs with a 25-year warranty, with **approximately 20mW DC of roof and ground-mounted solar energy systems and LED lighting** in the selected buildings and outdoor locations consisting of Tier 1 products on or before the **November 1, 2027 scheduled completion date**. The warranty provided by the Responder must be a single source warranty for the roofing, solar energy, and the lighting systems. Respondents are expected to provide proposals that include the required sites and describe their management approach to complete the projects within the overall timeline; nevertheless, the specific sites to be developed under contract may be modified during final negotiations.

2.2 List of Project Sites (The Building Numbers are listed on the SUBR Campus Map in Attachment A)

Note: The Respondent is responsible for verifying the roof type, area, and condition of all roofs included in the project, and is also responsible for determining exact numbers of lights to be installed in the buildings listed as well as for the outdoor lighting.

Building Name	Bldg. No.	Bldg. Use	Roof Type	Age	Solar	Lighting
U. S. Jones Hall	188	Housing	Metal	New	Yes	Yes
Dunn Hall	158B	Cafeteria	Flat		Yes	Yes
Boley Hall	-	Housing	Flat		Yes	Yes
Samuel V. Toddy Hall	181	Housing	Metal	New	Yes	Yes
Camille Shade Hall	182	Housing	Metal	Mew	Yes	Yes
Wallace Lee Bradford Hall	43	Housing	Flat		Yes	Yes
Grandison Hall	48	Housing	Flat		Yes	Yes
Horace G. White Hall	99	Housing	Metal	New	Yes	Yes
William Edward Reed Hall	100	Housing	Metal	New	Yes	Yes
Bethune Hall	124	Housing	Metal	New	Yes	Yes
Clifford T. Seymour Hall	85	Gym/Ctrs.	Flat		Yes	Yes
T. T. Allain Hall	156	Classrooms/Offices	Flat		Yes	Yes
W. W. Stewart Hall	160	Classrooms/Offices	Flat	New	Yes	No
T. H. Harris Hall	139	Classrooms/Offices	Metal	New	Yes	Yes
T. H. Harris Hall Annex	139A	Classrooms/Offices	Metal	New	Yes	Yes

University Bookstore	164	Bookstore	Metal	New	Yes	Yes
Tourgee A. Dubose Music Bldg.	91	Classrooms/Offices	Flat	New	Yes	Yes
Performing Arts Theater	91A	Theater	Flat		Yes	Yes
Isaac Greggs Band Building	91B	Classrooms/Offices	Flat	New	Yes	Yes
Augustus C. Blanks Hall	179	Classrooms/Offices	Flat		Yes	Yes
Smith-Brown Student Union	135	Entertainment	Flat	New	Yes	Yes
John B. Cade Library	167	Library	Flat	New	Yes	No
A.A. Lenoir Law Center	55&57	Classrooms/Offices	Flat	New	Yes	Yes
Rodney G. Higgins Hall	178	Classrooms/Offices	Flat	New	Yes	Yes
Pinkie E. Thrift Hall	125	Classrooms/Offices	Metal	New	Yes	Yes
Child Development Center	190	Classrooms/Offices	Metal	New	Yes	Yes
James B Moore Hall	161	Classrooms/Offices	Flat	New	Yes	Yes
Ashford O. Williams Hall	183	Classrooms/Offices	Metal	New	Yes	No
Henry L Thurman Hall	128	Classrooms/Offices	Flat	New	Yes	Yes
James W. Lee Hall	153	Classrooms/Offices	Flat		Yes	Yes
Health Research Center	153A	Laboratories	Flat		Yes	Yes
J. K. Haynes Hall	170	Classrooms/Offices	Flat		Yes	Yes
P.B.S. Pinchback Hall	186	Classrooms/Offices	Metal	New	Yes	No
Honors College	187	Classrooms/Offices	-	-	No	Yes
Student Financial Aid	122	Offices	-	-	No	Yes
AW Mumford Stadium	49	Football	None	-	No	Yes
AW Mumford End Zone	49	Seating	Flat	New	Yes	Yes
Lee-Hines Stadium	-	Baseball	None	-	No	Yes
FG Clark Activity Cen.	163	Basketball	Dome		Yes	Yes
Benjamin Kraft Physical Plant	138	Offices	Flat	New	Yes	Yes
Central Stores & Warehouse	171	Warehouse	Flat		No	Yes
Motor Pool	172	Auto Repair Shop	Flat		Yes	Yes
Ruffin Paul, Sr. Central Plant	174	Campus A/C Facility	Flat	New	Yes	Yes
H.L. Moody Intramural Center	146 Site	Recreation Center	Metal	New	Yes	Yes
J. S. Clark Administration Bldg.	166	Offices	Flat	New	Yes	Yes
J. S. Clark Admin. Bldg. Annex	40	Offices	Flat		Yes	Yes
Intra. Women Auditorium/Gym.	39	Gymnasium	Flat		Yes	Yes
Mayberry Hall Cafeteria	165	Cafeteria	Flat		Yes	Yes
Army ROTC	20	Classrooms/Offices	Flat		Yes	Yes
Ronald E. McNair Naval ROTC	18	Classrooms/Offices	Flat	New	Yes	Yes
Riverside Hall	17	Offices	Flat		Yes	Yes
Tarver Cultural & Herit. Center	-	Meetings Center	Flat	New	Yes	No
SU Museum of Art	32	Museum	Flat		Yes	Yes
University Place	155	House	-	-	No	Yes
Archives & Information Center	2	House	-	-	No	Yes
Dairy Creamery	136	Ground Mounted Solar Panels Site				
Open Field	177 Site	Ground Mounted Solar Panels Site				

2.3 Additional Project Information

Respondents are expected to include proof of all required business and contractor certifications and shall follow the equipment, construction, and insurance requirements included in Attachments D, E and F to this RFP. All paperwork for project permitting, construction, and interconnection shall be managed by the Respondent in compliance with all applicable laws, regulations, ordinances, and industry best practices. In addition to the detailed information that Respondents are providing on required sites, Respondents are asked to describe their development plan for reasonably and prudently maximizing the installed capacity that can be developed in partnership with SUBR on all buildings and other sites outlined above. This plan should be included as part of Section II (“Development Approach”) in the Respondent’s proposal.

3. PROJECT FINANCING

A solar lease is the proposed financing mechanism for this project and is an arrangement whereby SUBR has access to solar electricity without actually owning the solar energy system(s). In a solar lease, the Developer will install the solar systems throughout the land mass and then charge SUBR a monthly rate that replaces its current electricity bill from Entergy. Leases are often referred to as “Third-Party Ownership” or TPO because the leasing company owns the entire system operating throughout the campus. Solar lease agreements are typically for 20 or 25 years and may include an escalator that increases the monthly payment each year just as Entergy does. Solar leases are attractive because there are NO upfront costs, immediate energy savings, and no maintenance or monitoring responsibilities. For this project the Solar Lease Agreement will include the following:

- Turn-key roofing repairs, roof-installed and ground-mounted solar PV systems, and LED lighting throughout the campus
- 25-year worry-free operations and maintenance contract
- Complete insurance on all installed systems
- On-line systems monitoring and reporting
- SUBR remains on the Entergy grid with locked-in electricity savings

4. RESPONDING TO THIS RFP

Interested Respondents are encouraged to respond to this RFP with the requested information and documentation by the stated response deadline. Prior to submitting the RFP response, Respondents have the opportunity to submit questions and must attend the **MANDATORY** pre-proposal conference and tour of the project sites. After collecting responses to this RFP, the SUBR evaluation team will review the responses as described below.

4.1 Prior to Submission

Respondents may obtain additional information as follows:

4.1.1 RFP Questions. Questions about this RFP shall be submitted to the e-mail address on the cover of this RFP with a subject line that reads: “RFP For Roofing/Solar Energy Production and Energy Conservation”. All questions must be received by **September 5, 2025** in order to guarantee a response. Questions will be promptly answered via email.

Southern University RFP for Roofing/Solar Energy Production and Energy Conservation

4.1.2 Mandatory Pre-Proposal Conference and Site Visits. The **MANDATORY** Pre-Proposal and Tour will be held **Wednesday, August 27, 2025, 2025 at 9:00am Central Time** in a location to be announced later. Given the location of buildings across the SUBR portfolio, an additional in-person site walk can be scheduled prior to RFP submittal date. Respondents are requested to indicate their interest in attending a site walk with the contact listed above via email. A site walk is not required for a Respondent's proposal to be considered valid.

4.2 Proposal Submittal Date, Format, and Method

Full responses to this RFP must be received no later than Tuesday, September 11, 2025 at 3:00pm CDT.

All responses must be submitted electronically in PDF format as an attachment to an email and sent to the email address shown above. The subject line of the email should be: "Response to SUBR RFP For Roofing/Solar Energy Production and Energy Conservation" It is required that attachments with file sizes exceeding 8MB be compressed (i.e., zipped) and/or divided into multiple PDFs and e-mails with individual files labeled Volume I, Volume II, etc. to ensure message delivery. All costs associated with responding to this RFP will be borne by the Respondent.

All official notifications and communications shall be made via email.

This RFP is not a contract offer and should not be construed as intent, commitment, or promise to acquire products or services presented by any Respondent.

4.3 Evaluation of Responses

Review of responses submitted to this RFP will be managed by the SUBR evaluation team. Respondent will be notified by email no later than **October 1, 2025** if its response is of interest to SUBR.

Responses will be reviewed based on a variety of factors, including:

- **Organizational Capabilities.** SUBR is interested in Respondents that have strong organizational capabilities and an experienced team to provide innovative roofing, solar solutions, and LED lighting, and related services over the long term.
- **Solar Project Development Approach.** SUBR is looking for a strategic approach to developing this project, with hands-on experience driving results quickly within a phased work plan. The overall quality, reasonableness, and efficiency of development plans for the sites are important to SUBR.
- **Realized Energy Cost Savings.** Proposed technologies that are the most cost-effective (not necessarily the lowest capital cost) with the greatest potential to reduce long-term operating costs will be given highest priority.
- **Technical Viability and Quality.** SUBR is focused on solar energy systems and components that have a demonstrated track record of performance with robust warranties; meet the needs and requirements of its facilities; and provide reliable, safe, and high-quality construction methods in the roofing, solar and energy conservation industries.

At the discretion of the evaluation team, respondents responding to this RFP may be invited to provide additional information and/or make a presentation to the evaluation committee to further refine their proposals for evaluation.

4.4 RFP Terms and Conditions

Information received from responses to this RFP will be used in the evaluation of potential roofing, solar energy, and energy conservation project developers. SUBR reserves the right to discontinue or modify the RFP process at any time and makes no commitments, implied or otherwise, that this process will result in a business transaction or negotiation with one or more Respondents.

SUBR will not pay for any information herein requested, nor be liable for any costs incurred by Respondent.

Based on Respondent responses, meetings may be scheduled between Respondent and SUBR in person and/or remotely to expedite the review, evaluation, and potential contract discussions.

Exclusive or concurrent negotiations may be conducted with responsible Respondent(s) for the purpose of altering or otherwise changing the conditions, terms, and price of the proposed development agreement.

5. Information to Submit in the Proposal

Respondents interested in this RFP should provide proposals with straightforward information that clearly communicates the information requested below.

The proposal shall describe products and/or services being offered by Respondent in order to meet the goals and areas of interest stated in this RFP. Each Respondent must clearly demonstrate how its products and/or services meet the scope of work and requirements by providing detailed product specification materials and installation methods that are in strict compliance with federal, state, local, and utility regulations as well as industry best practices.

The proposal must have a complete package of information, strictly organized in the format and the order of information described below. Proposals with a different organization may be rejected.

The following information must be submitted in the proposal in the order shown:

A. COVER PAGE

Each proposal must include a cover page that includes "RFP For Roofing/Solar Energy Production and Energy Conservation", business name, primary address, contact person, contact information, and table of contents using the section numbers shown below.

B. SECTION 1: Company Background and Qualifications

Respondent should provide a summary of **no more than ten (10) pages** of background information about its company in this section. RFP responses shall include:

- Description of Respondent's capabilities in providing its roofing, solar and energy conservation products and/or services.
- Respondent's background and experience in the roofing, solar and energy conservation and construction industry of the team members.
- Brief bios of the key team members who would work on individual aspects of this project and identification of the project manager.

- Description of experience with roofing, solar energy, and energy conservation projects.
- Organizational chart with a brief description of planned sub-contractors and/or partners, along with description of how Respondent has worked with the sub-contractors and partners in the past.
- Brief description of any bankruptcies or legal proceedings against the Respondent or its planned sub-contractors or partners with relation to roofing, solar, and energy conservation projects in the past three (3) years.

C. SECTION 2: Solar PV Project Development Approach

Respondent must describe its overall strategy and approach to support deployment of roofing and solar PV across candidate sites in the SUBR portfolio of campus buildings and other locations. Respondent should include any prior or current experience as a Development Partner in the roofing, solar PV, and lighting industry.

Respondent should describe the ongoing support, management, and resources that will be provided to SUBR throughout the contract period, including any unique value-added services that it wishes to highlight. **This section should be no more than five (5) pages.**

D. SECTION 3: Proposed Roofing, Solar PV System, and LED Lighting Description

Respondent must include the following information in its response for every Required Work Site:

- A detailed technical description of each proposed roofing, solar PV system and LED lighting system including basic location diagrams, system designs, and all components.
- Supporting information that includes technical specifications for major equipment components including Agua Seal roofing specification, PV panels and inverters, LED lights, warranties, and production guarantees.
- Description and specifications of the mounting equipment and installation techniques including how roof warranties will be maintained (for roofing and rooftop solar systems) and how any ground-mounted solar arrays will be maintained.
- Solar PV system electricity output schedule on a monthly basis for the first year of system operation and supporting information directly from a recognized software modeling tool (e.g., **Helioscope or PVSyst** outputs must be included).
- Forecasted savings calculations for the solar and Led lighting systems up to a 25-year contract term for the project with documented assumptions, calculations, and forecast methods.
- AguaSeal scope for each building location.
- Projected annual system performance degradation.
- Sample construction and commissioning schedule (can be the same for each of the sites) assuming a contract is signed on or before **October 15, 2025**.
- Major inclusions and exclusions in the proposal.

E. SECTION 4: Roofing and Solar PV Proposal

Proposals should be made based on estimates using the requirements defined in this RFP and must be consistent with the responses in Section III above and the requirements in the Attachments.

Respondent's pricing shall be all-inclusive of roofing and ground-mounted solar system costs, LED lighting and controls, installation of specified roofing and solar, monitoring, and operation and maintenance costs. All assumptions and forecasts must be documented and explained covering up to a 25-year transaction.

Respondent must also include forecasted savings calculations up to a 25-year contract term for the project with documented assumptions, calculations, and forecast methods.

F. SECTION 5: Required Proposal Submission Information

Responders are required to include the following information (except the attachments) in this order directly after the cover letter for proposal submission. Include these items even if they are discussed on more detail in other parts of the proposal. This information is also located in Attachment H.

SECTION A: FINANCIAL STRUCTURE

TOTAL PROPOSED VALUE TO SUBR: _____

1. Lease Terms

- a. Lease Rate (Monthly):
- b. Term (years):
- c. Annual Escalator (%):
- d. How will SUBR make PPA payments:
- e. **Upfront Payments to SUBR for Endowments, Scholarships, Student Aid, and Academic Enhancements (5%) and for Project Management (5%):**
- f. **Suggest any additional means to provide energy savings to SUBR and the estimate value of these savings:**
- g. List any other charges that would be the responsibility of Southern University:

2. Asset Ownership

- a. Who will retain ultimate ownership of the solar and lighting systems?
- b. If transferring, when and under what terms?

3. O&M Plan for Roof and Solar Array: Explain and give examples of your Annual Preventative Maintenance Plan.

SECTION B: TECHNICAL DETAILS

1. Products & Materials Used

a. Solar:

1) Ground Mount

- Module:
- Racking:
- Inverter:

2) Roof Mount

- Module:
- Racking:
- Inverter:

b. Roofing:

- 1) Product:
- 2) Warranty Term
- 3) Annual Preventative Maintenance Plan (3rd Party)

c. Lighting:

- 1) Products:
- 2) Hour Lifetime

2. Solar System Layout (attach diagrams or files if available):

- a. Layout of each array:
- b. System Size (kW DC) for each array and combined:

3. Annual Energy Savings Estimate:

- a. Estimated Annual kWh Production:

b. Annual \$ Savings on Energy Bills:

c. Remaining Energy Bill:

4. **Savings Calculation Methodology:** Describe the model, assumptions, and any escalation factors.

SECTION C: PROJECT TIMELINE:

1. **Schedule by Component.** List start and end dates as well as detailed milestones for each step of the project. Do not combine components below.

a. Roofing:

b. Lighting Installation:

c. Solar Installation:

d. System Commissioning:

SECTION D: WARRANTIES AND COMPLIANCE

1. **SAFE HARBOR STRATEGY (re: OBBB Legislation):** Describe your plan to meet safe harbor deadlines and preserve ITC or other incentives.

2. **END OF TERM SOLAR PLAN:** What are the options at the end of the PPA/lease term? (e.g., buyout, renewal, removal)

3. WARRANTIES

a. Solar Arrays

1) Module:

- Product:
- Workmanship:

2) Racking:

- Product:
- Workmanship:

3) Inverter:

- Product:
- Workmanship:
- Solution for warranty claims:

b. Roofing

- 1) Product:
- 2) Workmanship:
- 3) Solution for roofs with existing warranties:

c. Lighting (All lamps or fixtures must be DLC certified, and Energy Star approved)

- 1) Product:
- 2) Workmanship:
- 3) Incentives- Explain incentive program and if SUBR will be paid directly or if it is added into the cost of the LED lighting project.
- 4) Warranty Claim Solution:
- 5) Estimated Annual \$ Savings on Energy Bills:

SECTION E: ATTACHMENTS

1. System layout diagrams
2. Product datasheets
3. Insurance certificates
4. Licensing documentation
5. Company profile or brochure

G. DISCLOSURE REGARDING RFP PREPARATION AND SELECTION PROCESS

Southern University at Baton Rouge (“SUBR”) has consulted with multiple contractors in the preparation of this Request for Proposals (“RFP”). Notwithstanding such consultations, the solicitation, evaluation, and selection of the award recipient will be the sole responsibility of SUBR and its designated RFP Selection Committee.

The RFP Selection Committee will be formed by SUBR upon release of the RFP. The identities of Selection Committee members will not be disclosed, and there will be no involvement of any contractor—whether consulted during RFP preparation or otherwise—in the evaluation or selection process. Bidders and their representatives shall not be involved or in communication with any member of the Selection Committee at any stage of the selection process.

SUBR will make every effort to ensure a fair, impartial, and unbiased evaluation and selection. Any prior acquaintance between a bidder and a member of the Selection Committee is purely coincidental and will not be material to the evaluation or award determination.

ATTACHMENTS

ATTACHMENTS

Attachment A: SUBR Campus Map

Attachment B: SUBR Electricity Usage for 2023-2025

Attachment C: SUBR Landmass Solar Energy Assessment

Attachment D: SUBR Lighting Analysis From 2011 Lighting Audit

**Attachment E: Roofing and Solar PV Minimum Equipment and
Construction Requirements**

Attachment F: Roofing Systems Specifications

Attachment G: Required Proposal Submission Information

Attachment A: SUBR Campus Map

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OUTBURN UNIVERSITY/LSU
ATON ROUCE COMMUNITY
COLLEGE PARKING AGREEMENT

Let P_1, P_2, \dots, P_n be the vertices of the polygon. Then the vertices of the dual polygon are the midpoints of the segments $P_1P_2, P_2P_3, \dots, P_{n-1}P_n, P_nP_1$.

...and, with reference to all the other cases, the

FOR ADDITIONAL INFORMATION,
PLEASE CONTACT US AT:

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

100 mg/kg body weight (b.wt) of the test substance was administered intraperitoneally (i.p.) to the rats. The rats were sacrificed 24 h after the last dose. The organs were removed and weighed. The tissues were then homogenized in 10% trichloroacetic acid (TCA) and the homogenates were centrifuged at 10,000g for 10 min. The supernatants were then assayed for the levels of the test substance. The results were expressed as the mean \pm SD.

for Global Zone Assemblages and Relationships of the Cretaceous

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The American Chemical Society
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to focus a variety of interrelated structural and systems-related issues. CCARS cannot guarantee the accuracy of this report and data set, and does not accept any responsibility for the data contained herein.

St. Paul Elliot Washington, Hurdich, 2002

Southern University and A & M College
Baton Rouge, Louisiana 70813

Legend

Parking Lots

- Commuter
- Faculty
- Faculty/Residential
- Law
- Resident Southern
- Resident North
- University Apartments

Scale: 0 150 300 600 900 1,200 1,500 Feet

Map Labels: North Checkpoint, University Police, Southern Lab, Robert E. Smith Dr., Harry E. Cobb St., A.W. Mumford Stadium, F.C. Clark Activity Center, Student Union, Library, Office of Admissions, Student Health Center, Counseling Center, Reservoir, Archives, Mary Booker Hall, James M. Lee Hall, Health Research, Frank Hayder Hall, University Place, T.T. Allen, Dunn Hall, William Henry James Hall, William W. Stewart, Mary Booker Hall, James M. Lee Hall, Health Research, Frank Hayder Hall, University Place, T.T. Allen, Dunn Hall, William Henry James Hall, William W. Stewart, Mary Booker Hall, James M. Lee Hall, Health Research, Frank Hayder Hall, University Place, T.T. Allen, Dunn Hall, William Henry James Hall, William W. Stewart.

Map Grid: A through H (vertical), 1 through 10 (horizontal)

Mississippi River

Southern University and A & M College
Baton Rouge, Louisiana 70813

Legend
Parking Lots
 Commuter
 Faculty
 Faculty/Resident
 Law
 Resident South
 Resident North
 University Apartments

Scale: 0 150 300 600 900 1,200 1,500 Feet

Map Labels: North Checkpoint, University Police, Southern Lab, A.W. Murphree Stadium, Harding Checkpoint, C. S. Clark Activity Center, University Bookstore, E. M. Mayberry Hall, J. N. Cook Administration, John R. Cook Library, Mervin F. Frazier Plant, J. K. Haynes Hall, Central Stores and Warehouse, Motor Pool, Farming House, Ruffin Paul Sr., Harold Frazier Green House, Meador's Varsity Building, Rodney G. Higgins Hall, Augustus C. Blandia, National Plant (Old Center), Statuette V. Toulou Hall, Camille Shady, Ashford O. Williams Hall, Student Pavilion, Blawie Hall Student Health Center, P. B. S. Pinhook Engineering Building, Honors College, U.S. Jones Hall, Child Development Center, Counseling Center, 200 MA Millennium Apartment, 300 MA Millennium Apartment, 400 MA Millennium Apartment, North Checkpoint, Harding Checkpoint.

161	James B. Moore Hall	1-6	171	Central Stores and Warehouse	A-5	180	National Plant (Old Center)	E-7	190	Child Development Center
162	Laumbach's Cope	H-7	172	Motor Pool	A-6	181	Statuette V. Toulou Hall	D-2	191	Counseling Center
163	C. S. Clark Activity Center	G-9	173	Farming House	B-4	182	Camille Shady	D-3	200 MA	Millennium Apartment
164	University Bookstore	H-5	174	Ruffin Paul Sr.	E-7	183	Ashford O. Williams Hall	B-6	300 MA	Millennium Apartment
165	E. M. Mayberry Hall	G-3	175	Harold Frazier Green House	B-5	184	Student Pavilion	E-1	400 MA	Millennium Apartment
166	J. N. Cook Administration	G-3	176	Meador's Varsity Building	A-4	185	Blawie Hall Student Health Center	E-3		
167	John R. Cook Library	F-1/7.5	177	Rodney G. Higgins Hall	A-5	186	P. B. S. Pinhook Engineering Building	E-7		
168	Mervin F. Frazier Plant	A-6	178	Augustus C. Blandia	F-5	187	Honors College	E-6		
169	J. K. Haynes Hall	F-7	179		F-1/G-5	188	U.S. Jones Hall	C-2		

[illegible]

Attachment B: SUBR Electricity Usage for 2023-2025



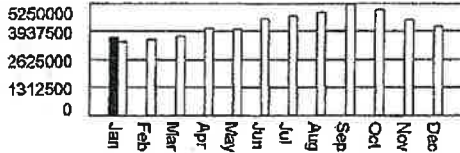
Entergy Louisiana, LLC
entergy-louisiana.com

Service Location
Main Campus
Baton Rouge, LA 70807
Page 1 of 2

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2023 2022
Jan 2023	31	3684000	118838.7	
Jan 2022	31	3471000	111967.7	



Important Messages

Thank you for the prompt way you pay your bill.

See your daily cost and usage to help manage your bill. Visit entergy.com/myAdvisor.

IMPORTANT NOTICE: Sending an eligible check payment authorizes Entergy to convert your paper check to an electronic debit. For more information call 1-888-627-6695. For more energy saving tips, visit entergy.com.

Please add \$1 to total bill amount for **The Power to Care**. Learn more at entergy.com.

Account Summary for Southern University

Account # 32108060	Mail Date 01/10/2023	QPC 04000
Invoice # 2025380488		Cycle 06
Amount Due by 02/01/2023		\$297,827.69

Account Detail

Previous Balance	340,863.95
Payment Received (12/14/2022)	-340,863.95
Remaining Balance	\$0.00

Current Charges

Demand Charge	7366 kW @ \$5.67	41,765.22
Energy Charge	3684000 kWh @ \$0.01034	38,092.56
AMS Charge		2.62
Formula Rate Plan	@ 68.4991%	54,703.66
2005 Hurricane Offset Charge	@ -0.6266%	-500.41
2008 Hurricane Offset Charge	@ -0.3733%	-298.12
2012 Hurricane Offset Charge	@ -0.1118%	-89.28
2020 Hurricane Offset Charge	@ -0.5051%	-403.37
Fuel Adjustment	3684000 kWh @ \$0.03806	140,213.04
Fuel Tracker Rider Schedule FT	3684000 kWh @ \$0.00049	1,805.16
Federal Mandated EAC Rider	3684000 kWh @ \$0.000057	209.99
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$275,651.07

Security Lighting Billing

- Rate -	Qty	- Facility Type -	- kWh -	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 71.9953%		31.46
2005 Hurricane Offset Charge		@ -0.9397%		-0.41
2008 Hurricane Offset Charge		@ -0.7127%		-0.31
2012 Hurricane Offset Charge		@ -0.359%		-0.16
2020 Hurricane Offset Charge		@ -0.9314%		-0.41
Fuel Adjustment	734.60 kWh @ \$0.03954			29.05
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$0.00051			0.37
Fuel Stabilization Pilot Rider	734.60 kWh @ \$-0.000618			-0.45
Federal Mandated EAC Rider	734.60 kWh @ \$0.000059			0.04
Total Security Lighting Charges (12/03/2022 - 01/05/2023)				\$102.88



entergy-louisiana.com

Account 32108060

QPC 04000

Invoice # 2025380488

Customer Service 800-766-1648	Amount Due by 02/01/2023	\$297,827.69
----------------------------------	---------------------------------	---------------------

Please send stub with check payable to Entergy. Thank You.

SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
PO BOX 8103
BATON ROUGE, LA 70891-8103

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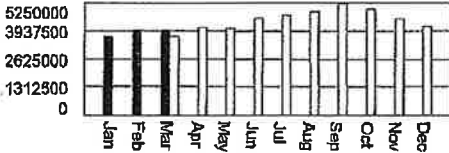
Entergy Louisiana, LLC
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Service Location
Main Campus
Baton Rouge, LA 70807
Page 1 of 2

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2023	2022
Mar 2023	28	3981000	142176.6		
Mar 2022	28	3705000	132321.4		



Important Messages

Thank you for the prompt way you pay your bill.

See your daily cost and usage to help manage your bill. Visit entergy.com/myAdvisor.

IMPORTANT NOTICE: Sending an eligible check payment authorizes Entergy to convert your paper check to an electronic debit. For more information call 1-888-627-6695. For more energy saving tips, visit entergy.com.

Please add \$1 to total bill amount for The Power to Care. Learn more at entergy.com.

Account Summary for Southern University

Account # 32108060	Mail Date 03/07/2023	QPC 04000
Invoice # 2025469618	Cycle 06	
Amount Due by 03/29/2023		\$280,660.10

Account Detail

Previous Balance	323,845.26
Payment Received (03/01/2023)	-323,845.26
Remaining Balance	\$0.00

Current Charges

Demand Charge	7366 kW @ \$5.67	41,765.22
Energy Charge	3981000 kWh @ \$0.01034	41,163.54
AMS Charge		2.62
Formula Rate Plan	@ 68.4991%	56,807.25
2005 Hurricane Offset Charge	@ -0.6266%	-519.65
2008 Hurricane Offset Charge	@ -0.3733%	-309.58
2012 Hurricane Offset Charge	@ -0.1118%	-92.72
2020 Hurricane Offset Charge	@ -0.5051%	-418.89
Fuel Adjustment	3981000 kWh @ \$0.02949	117,399.69
Fuel Tracker Rider Schedule FT	3981000 kWh @ \$0.00049	1,950.69
Federal Mandated EAC Rider	3981000 kWh @ \$0.000074	294.59
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$258,192.76

Security Lighting Billing

Rate	Qty	Facility Type	kWh	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan			@ 71.9953%	31.46
2005 Hurricane Offset Charge			@ -0.9397%	-0.41
2008 Hurricane Offset Charge			@ -0.7127%	-0.31
2012 Hurricane Offset Charge			@ -0.359%	-0.16
2020 Hurricane Offset Charge			@ -0.9314%	-0.41
Fuel Adjustment	734.60 kWh	@ \$0.03066		22.52
Fuel Tracker Rider Schedule FT	734.60 kWh	@ \$0.00051		0.37
Fuel Stabilization Pilot Rider	734.60 kWh	@ \$0.000089		0.05
Federal Mandated EAC Rider	734.60 kWh	@ \$0.000076		0.06
Total Security Lighting Charges	(02/04/2023 - 03/06/2023)			\$96.87



entergy-louisiana.com

Account 32108060

QPC 04000

Invoice # 2025469618

Customer Service
800-766-1648

Amount Due by 03/29/2023

\$280,660.10

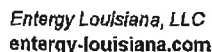
Please send stub with check payable to Entergy. Thank You.

Handwritten signature and date 3/13/23

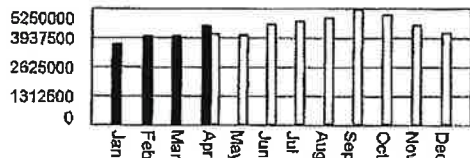
SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
PO BOX 8103
BATON ROUGE, LA 70891-8103

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**Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns**



-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan			@ 71.9953%	31.46
2005 Hurricane Offset Charge			@ -0.8201%	-0.36
2008 Hurricane Offset Charge			@ -0.6092%	-0.27
2012 Hurricane Offset Charge			@ -0.3124%	-0.14
2020 Hurricane Offset Charge			@ -1.8683%	-0.82
2021 Hurricane Offset Charge			@ -0.0897%	-0.04
Fuel Adjustment		734.60 kWh @	\$0.02118	15.56
Fuel Tracker Rider Schedule FT		734.60 kWh @	\$0.00051	0.37

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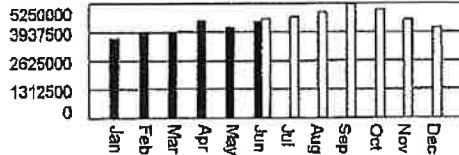
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Service Location
Main Campus
Baton Rouge, LA 70807
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2023 2022
Jun 2023	31	4419000	142548.4	
Jun 2022	31	4554000	146903.2	



Important Messages

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Account Summary for Southern University

Account # 32108060	Mail Date 06/06/2023	QPC 04000
Invoice # 2025603094	Cycle 06	
Amount Due by 06/28/2023		\$268,031.80

Account Detail

Previous Balance	280,987.32
Payment Received (05/22/2023)	-280,987.32
Remaining Balance	\$0.00

Current Charges

Demand Charge	7473 kW @ \$6.49	48,499.77
Energy Charge	4419000 kWh @ \$0.01034	45,692.46
AMS Charge		2.62
Formula Rate Plan	@ 68.4991%	64,522.62
2005 Hurricane Offset Charge	@ -0.5445%	-512.89
2008 Hurricane Offset Charge	@ -0.3171%	-298.69
2012 Hurricane Offset Charge	@ -0.0964%	-90.80
2020 Hurricane Offset Charge	@ -0.8635%	-813.37
2021 Hurricane Offset Charge	@ -0.0352%	-33.16
Fuel Adjustment	4419000 kWh @ \$0.01898	83,872.62
Fuel Tracker Rider Schedule FT	4419000 kWh @ \$0.00049	2,165.31
Federal Mandated EAC Rider	4419000 kWh @ \$0.000039	172.34
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$243,328.83

Security Lighting Billing

Rate	Qty	Facility Type	kWh	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 71.9953%		31.46
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.0198			14.55
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$0.00051			0.37



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Account 32108060

QPC 04000

Invoice # 2025603094

Customer Service 800-766-1648	Amount Due by 06/28/2023	\$268,031.80
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Account # 32108060
Invoice # 2025603094
Mail Date 06/06/2023
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Usage Adjustments

Total kWh		4419000
Contract Power kW	(10/2022)	9059.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - On	0.8565	7473.00
PF Adjusted kW - Off	0.8657	7403.00
Billed kW		7473.00

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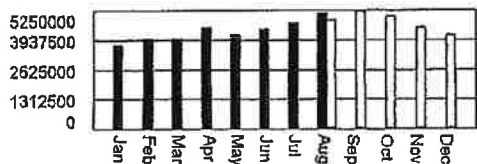
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2023	2022
Aug 2023	31	5100000	164516.1		
Aug 2022	31	4836000	156000.0		



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Account Summary for Southern University

Account # 32108060 Mail Date 08/08/2023 QPC 04000
Invoice # 2025691709 Cycle 06

Amount Due by 08/30/2023 \$293,342.78

Account Detail

Previous Balance 287,622.27
Payment Received (07/21/2023) -287,622.27
Remaining Balance \$0.00

Current Charges

Demand Charge	8470 kW @ \$6.49	54,970.30
Energy Charge	5100000 kWh @ \$0.01034	52,734.00
AMS Charge		2.62
Formula Rate Plan	@ 68.4991%	73,778.27
2005 Hurricane Offset Charge	@ -0.5445%	-586.46
2008 Hurricane Offset Charge	@ -0.3171%	-341.54
2012 Hurricane Offset Charge	@ -0.0964%	-103.83
2020 Hurricane Offset Charge	@ -0.8635%	-930.05
2021 Hurricane Offset Charge	@ -0.0352%	-37.91
Fuel Adjustment	5100000 kWh @ \$0.01777	90,627.00
Fuel Tracker Rider Schedule FT	5100000 kWh @ \$-0.00069	-3,519.00
Federal Mandated EAC Rider	5100000 kWh @ \$0.000058	295.80
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$267,039.20

Security Lighting Billing

Rate	Qty	Facility Type	kWh	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 71.9953%		31.46
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.01854			13.62
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$-0.00072			-0.53

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Account 32108060

QPC 04000

Invoice # 2025691709

Customer Service 800-766-1648	Amount Due by 08/30/2023	\$293,342.78
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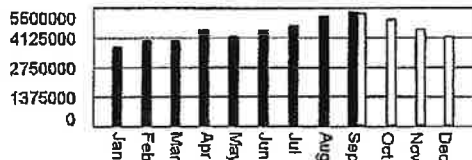
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2023 2022
Sep 2023	31	5316000	171483.9	
Sep 2022	31	5208000	168000.0	



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Nurph AP
9/12/23

Account Summary for Southern University

Account # 32108060	Mail Date 09/07/2023	QPC 04000
Invoice # 2025730067		Cycle 06
Amount Due by 09/29/2023		\$313,565.12

Account Detail

Previous Balance	293,342.78
Payment Received (09/05/2023)	-293,342.78
Remaining Balance	\$0.00

Current Charges

Demand Charge	9523 kW @ \$6.49	61,804.27
Energy Charge	5316000 kWh @ \$0.01034	54,967.44
AMS Charge		2.62
Formula Rate Plan	@ 69.5569%	81,224.60
2005 Hurricane Offset Charge	@ -0.5445%	-635.84
2008 Hurricane Offset Charge	@ -0.3171%	-370.29
2012 Hurricane Offset Charge	@ -0.0964%	-112.57
2020 Hurricane Offset Charge	@ -0.8635%	-1,008.35
2021 Hurricane Offset Charge	@ -0.0352%	-41.10
Fuel Adjustment	5316000 kWh @ \$0.01762	93,667.92
Fuel Tracker Rider Schedule FT	5316000 kWh @ \$-0.00069	-3,668.04
Federal Mandated EAC Rider	5316000 kWh @ \$0.000049	260.48
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$286,241.14

Security Lighting Billing

Rate	Qty	Facility Type	kWh	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh	@ \$0.01838		13.50
Fuel Tracker Rider Schedule FT	734.60 kWh	@ \$-0.00072		-0.53



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Account 32108060

QPC 04000

Invoice # 2025730067

Customer Service 800-766-1648	Amount Due by 09/29/2023	\$313,565.12
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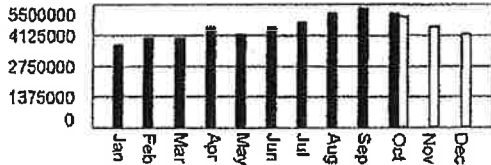
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2023	2022
Oct 2023	30	5097000	169900.0		
Oct 2022	30	4971000	165700.0		



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10/16/23

Account Summary for Southern University

Account # 32108060	Mail Date 10/11/2023	QPC 04000
Invoice # 2025838038		Cycle 06
Amount Due by 11/02/2023		\$334,885.44

Account Detail

Previous Balance	313,565.12
Payment Received (09/20/2023)	-313,565.12
Remaining Balance	\$0.00

Current Charges

Demand Charge	8695 kW @ \$6.49	56,430.55
Energy Charge	5097000 kWh @ \$0.01034	52,702.98
AMS Charge		2.62
Formula Rate Plan	@ 69.5569%	75,911.72
2005 Hurricane Offset Charge	@ -0.5445%	-594.25
2008 Hurricane Offset Charge	@ -0.3171%	-346.07
2012 Hurricane Offset Charge	@ -0.0964%	-105.21
2020 Hurricane Offset Charge	@ -0.8635%	-942.39
2021 Hurricane Offset Charge	@ -0.0352%	-38.42
Fuel Adjustment	5097000 kWh @ \$0.02475	126,150.75
Fuel Tracker Rider Schedule FT	5097000 kWh @ \$-0.00069	-3,516.93
Federal Mandated EAC Rider	5097000 kWh @ \$0.000023	117.23
EECR-QS Rider		73.86
EECR-PE Rider		74.28
Total Metered Charges (Contract 3398534)		\$305,920.72

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.02578			18.94
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$-0.00072			-0.53
Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000096			0.07
Federal Mandated EAC Rider	734.60 kWh @ \$0.000024			0.02



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Account 32108060

QPC 04000

Invoice # 2025838038

Customer Service 800-766-1648	Amount Due by 11/02/2023	\$334,885.44
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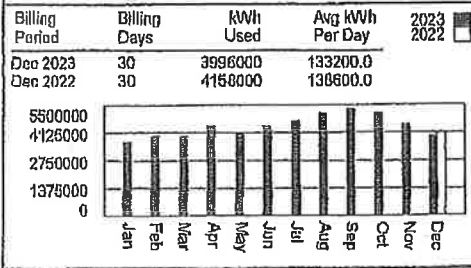


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Total Monthly Energy Usage



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Account Summary for Southern University

Account # 32108060	Mail Date 12/06/2023	QPC 04000
Invoice # 2025897603	Cycle 06	
Amount Due by 12/28/2023		\$260,447.69

Account Detail

Previous Balance	280,444.11
Payment Received (11/17/2023)	-280,444.11
Remaining Balance	\$0.00

Current Charges

Demand Charge	7683 kW @ \$5.67	42,995.61
Energy Charge	3996000 kWh @ \$0.01034	41,318.64
AMS Charge		2.62
Formula Rate Plan	@ 69.5569%	58,648.20
2005 Hurricane Offset Charge	@ -0.5445%	-459.11
2008 Hurricane Offset Charge	@ -0.3171%	-267.37
2012 Hurricane Offset Charge	@ -0.0964%	-81.28
2020 Hurricane Offset Charge	@ -0.8635%	-728.08
2021 Hurricane Offset Charge	@ -0.0352%	-29.68
Fuel Adjustment	3996000 kWh @ \$0.02401	96,943.96
Fuel Tracker Rider Schedule FT	3996000 kWh @ \$-0.00069	-2,767.24
Federal Mandated EAC Rider	3996000 kWh @ \$0.000026	103.90
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$234,840.17

Security Lighting Billing

Rate	Qty	Facility Type	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.02501			18.37
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$-0.00072			-0.53

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12/11/23



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Account 32108060

QPC 04000

Invoice # 2025897603

Customer Service 800-766-1648	Amount Due by 12/28/2023	\$260,447.69
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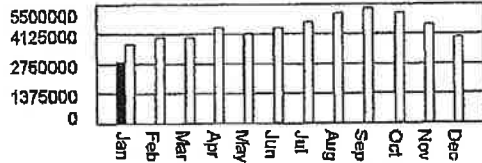
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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2024 2023
Jan 2024	31	2880000	92903.2	
Jan 2023	31	3684000	118838.7	



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Account Summary for Southern University

Account # 32108060 Mail Date 01/11/2024 QPC 04000
Invoice # 2025926364 Cycle 06

Amount Due by 02/02/2024 \$213,143.17

Account Detail

Previous Balance		260,447.69
Payment Received (12/18/2023)		-260,447.69
Remaining Balance		\$0.00

Current Charges

Demand Charge	7366 kW @ \$5.67	41,765.22
Energy Charge	2880000 kWh @ \$0.01034	29,779.20
AMS Charge		2.41
Formula Rate Plan	@ 69.5569%	49,765.76
2005 Hurricane Offset Charge	@ -0.5445%	-389.57
2008 Hurricane Offset Charge	@ -0.3171%	-226.87
2012 Hurricane Offset Charge	@ -0.0964%	-68.97
2020 Hurricane Offset Charge	@ -0.8635%	-617.81
2021 Hurricane Offset Charge	@ -0.0352%	-25.18
Fuel Adjustment	2880000 kWh @ \$0.02465	70,992.00
Fuel Tracker Rider Schedule FT	2880000 kWh @ \$-0.00069	-1,987.20
Federal Mandated EAC Rider	2880000 kWh @ \$0.000042	120.96
EECR-QS Rider		73.86
EECR-PE Rider		74.28
Total Metered Charges (Contract 3398534)		\$189,258.09

Security Lighting Billing

- Rate -	Qty	- Facility Type -	- kWh -	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.02568			18.86
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$-0.00072			-0.53
Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000073			0.05
Federal Mandated EAC Rider	734.60 kWh @ \$0.000044			0.03



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Account 32108060

QPC 04000

Invoice # 2025926364

Customer Service
800-766-1648

Amount Due by 02/02/2024

\$213,143.17

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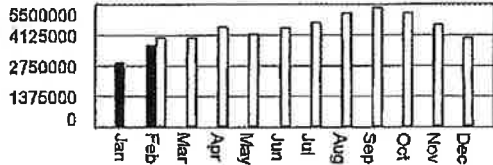
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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2024 2023
Feb 2024	31	3654000	117871.0	
Feb 2023	31	3987000	128612.9	



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2/16/24

Account Summary for Southern University

Account # 32108060	Mail Date 02/06/2024	QPC 04000
Invoice # 2025949557		Cycle 06
Amount Due by 02/28/2024		\$242,867.07

Account Detail

Previous Balance	213,143.17
Payment Received (01/26/2024)	-213,143.17
Remaining Balance	\$0.00

Current Charges

Demand Charge	7366 kW @ \$5.67	41,765.22
Energy Charge	3654000 kWh @ \$0.01034	37,782.36
AMS Charge		2.41
Formula Rate Plan	@ 69.5569%	55,332.51
2005 Hurricane Offset Charge	@ -0.5445%	-433.15
2008 Hurricane Offset Charge	@ -0.3171%	-252.25
2012 Hurricane Offset Charge	@ -0.0964%	-76.69
2020 Hurricane Offset Charge	@ -0.8635%	-686.91
2021 Hurricane Offset Charge	@ -0.0352%	-28.00
Fuel Adjustment	3654000 kWh @ \$0.02389	87,294.06
Fuel Tracker Rider Schedule FT	3654000 kWh @ \$-0.00069	-2,521.26
Federal Mandated EAC Rider	3654000 kWh @ \$0.000067	244.82
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$218,573.12

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8201%		-0.36
2008 Hurricane Offset Charge		@ -0.6092%		-0.27
2012 Hurricane Offset Charge		@ -0.3124%		-0.14
2020 Hurricane Offset Charge		@ -1.8683%		-0.82
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.02488			18.28
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$-0.00072			-0.53



entergy-louisiana.com

Account 32108060

QPC 04000

Invoice # 2025949557

Customer Service
800-766-1648

Amount Due by 02/28/2024

\$242,867.07

Please send stub with check payable to Entergy. Thank You.

SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
PO BOX 8103
BATON ROUGE, LA 70891-8103

RECEIVED FEB 24 PM 1:08
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Entergy Louisiana, LLC
entergy-louisiana.com

Account # 32108060
Invoice # 2025949557
Mail Date 02/06/2024
Page 2 of 3

Entergy Business Center, 800-766-1848, 24hrs
Customer Service, Outages or Safety Concerns

MB D MAB8

Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000137	0.10
Federal Mandated EAC Rider	734.60 kWh @ \$0.00007	0.05
Total Security Lighting Charges	(01/05/2024 - 02/05/2024)	\$92.50

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 74.4315%		26.01
2006 Hurricane Offset Charge		@ -0.8201%		-0.29
2008 Hurricane Offset Charge		@ -0.6092%		-0.21
2012 Hurricane Offset Charge		@ -0.3124%		-0.11
2020 Hurricane Offset Charge		@ -1.8683%		-0.65
2021 Hurricane Offset Charge		@ -0.0897%		-0.03
Fuel Adjustment	1075 kWh @ \$0.02488			26.75
Fuel Tracker Rider Schedule FT	1075 kWh @ \$-0.00072			-0.77
Fuel Stabilization Pilot Rider	1075 kWh @ \$0.000137			0.15
Federal Mandated EAC Rider	1075 kWh @ \$0.00007			0.08
Total Street and Highway Lighting Charges	(01/05/2024 - 02/05/2024)			\$85.87

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		14,010.68
Total Other Unmetered Charges	(01/05/2024 - 02/05/2024)			\$14,010.68
LURC 2012 Hurricane Charge	@ 0.3345%			266.09
LURC 2012 Hurricane Charge	@ 1.3314%			1.05
LURC 2020 Hurricane Charge	@ 9.5081%			7,562.10
LURC 2020 Hurricane Charge	@ 19.9291%			15.67
LURC 2021 Hurricane Charge	@ 2.8312%			2,252.22
LURC 2021 Hurricane Charge	@ 9.8861%			7.77

Current Month Energy Charges **\$242,867.07**

Meter Reading (Contract 3398534)

Meter # 7857303 Rate : GS_LPS5
Total Days (31)
Current Meter Reading (01/31/2024 11:59 PM) 23538
Previous Meter Reading (12/31/2023 11:59 PM) - 23240
Difference 298
Multiplier x 9000
kWh Metered 2682000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	0 kW	01/01/2024 00:30AM
Off Peak	4498 kW	01/31/2024 02:30PM
On Peak	0.00 KVAR	01/01/2024 00:30AM
Off Peak	2428.00 KVAR	01/31/2024 02:30PM

Meter Reading (Contract 3398534)

Meter # 7868565 Rate : GS_LPS5
Total Days (31)
Current Meter Reading (01/31/2024 11:59 PM) 11010
Previous Meter Reading (12/31/2023 11:59 PM) - 10929
Difference 81
Multiplier x 12000
kWh Metered 972000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	0 kW	01/01/2024 00:30AM
Off Peak	2330 kW	01/31/2024 02:30PM
On Peak	0.00 KVAR	01/01/2024 00:30AM
Off Peak	1156.00 KVAR	01/31/2024 02:30PM



Entergy Louisiana, LLC
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Account # 32108060
Invoice # 2025949557
Mail Date 02/06/2024
Page 3 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Usage Adjustments

Total kWh		3654000
Contract Power kW	(09/2023)	9523.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - Off	0.8855	6941.00
Billed kW		7366.00

MB D MAB8



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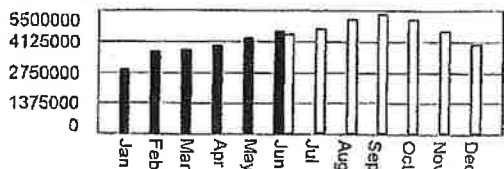
Service Location
Main Campus
Baton Rouge, LA 70807

Page 1 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2024	2023
Jun 2024	31	4581000	147774.2		
Jun 2023	31	4419000	142548.4		



Important Messages

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Please add \$1 to total bill amount for **The Power to Care**. Learn more at entergy.com.

Henry R. Summers
6/12/2024

Account Summary for Southern University

Account # 32108060	Mail Date 06/06/2024	QPC 04000
Invoice # 2026043673	Cycle 06	
Amount Due by 06/28/2024		\$280,209.36

Account Detail

Previous Balance	262,559.14
Payment Received (05/16/2024)	-262,559.14
Remaining Balance	\$0.00

Current Charges

Demand Charge	8236 kW @ \$6.49	53,451.64
Energy Charge	4581000 kWh @ \$0.01034	47,367.54
AMS Charge		2.41
Formula Rate Plan	@ 69.5569%	70,128.37
2005 Hurricane Offset Charge	@ -0.5601%	-564.70
2008 Hurricane Offset Charge	@ -0.2821%	-284.42
2012 Hurricane Offset Charge	@ -0.0856%	-86.30
2020 Hurricane Offset Charge	@ -1.3287%	-1,339.62
2021 Hurricane Offset Charge	@ -0.0352%	-35.49
Fuel Adjustment	4581000 kWh @ \$0.01932	88,504.92
Fuel Tracker Rider Schedule FT	4581000 kWh @ \$-0.00069	-3,160.89
Federal Mandated EAC Rider	4581000 kWh @ \$0.000037	169.50
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$254,302.96

Security Lighting Billing

Rate	Qty	Facility Type	kWh	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.02014			14.79
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$-0.00072			-0.53



entergy-louisiana.com

Account 32108060

QPC 04000

Invoice # 2026043673

Customer Service
800-766-1648

Amount Due by 06/28/2024

\$280,209.36

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SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
PO BOX 8103
BATON ROUGE, LA 70891-8103

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Entergy Louisiana, LLC
entergy-louisiana.com

Account # 32108060
Invoice # 2026043673
Mail Date 06/06/2024
Page 2 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

ME 0 MAR28

Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000051	0.04
Federal Mandated EAC Rider	734.60 kWh @ \$0.000039	0.03
Total Security Lighting Charges	(06/03/2024 - 06/04/2024)	\$88.71

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 74.4315%		26.01
2005 Hurricane Offset Charge		@ -0.8397%		-0.29
2008 Hurricane Offset Charge		@ -0.5384%		-0.19
2012 Hurricane Offset Charge		@ -0.2748%		-0.10
2020 Hurricane Offset Charge		@ -2.4644%		-0.86
2021 Hurricane Offset Charge		@ -0.0897%		-0.03
Fuel Adjustment	1075 kWh @ \$0.02014			21.65
Fuel Tracker Rider Schedule FT	1075 kWh @ \$-0.00072			-0.77
Fuel Stabilization Pilot Rider	1075 kWh @ \$0.000051			0.05
Federal Mandated EAC Rider	1075 kWh @ \$0.000039			0.04
Total Street and Highway Lighting Charges	(05/03/2024 - 06/04/2024)			\$80.45

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		14,010.68
Total Other Unmetered Charges	(06/03/2024 - 06/04/2024)			\$14,010.68
LURC 2012 Hurricane Charge	@ 0.3428%			345.62
LURC 2012 Hurricane Charge	@ 1.3479%			1.06
LURC 2020 Hurricane Charge	@ 8.4337%			8,502.99
LURC 2020 Hurricane Charge	@ 18.6407%			14.66
LURC 2021 Hurricane Charge	@ 2.8312%			2,854.46
LURC 2021 Hurricane Charge	@ 9.8861%			7.77

Current Month Energy Charges **\$280,209.36**

Meter Reading (Contract 3398534)

Meter # 7857303	Rate : GS_LPS5	
Total Days (31)		
Current Meter Reading	(05/31/2024 11:59 PM)	24764
Previous Meter Reading	(04/30/2024 11:59 PM)	- 24447
Difference		317
Multiplier		x 9000
kWh Metered		2853000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	3758 kW	05/29/2024 05:30PM
Off Peak	4713 kW	05/09/2024 04:00PM
On Peak	2373.00 KVAR	05/29/2024 05:30PM
Off Peak	2365.00 KVAR	05/09/2024 04:00PM

Meter Reading (Contract 3398534)

Meter # 7868565	Rate : GS_LPS5	
Total Days (31)		
Current Meter Reading	(05/31/2024 11:59 PM)	11466
Previous Meter Reading	(04/30/2024 11:59 PM)	- 11322
Difference		144
Multiplier		x 12000
kWh Metered		1728000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	3086 kW	05/29/2024 05:30PM
Off Peak	3379 kW	05/09/2024 04:00PM
On Peak	1776.00 KVAR	05/29/2024 05:30PM
Off Peak	1908.00 KVAR	05/09/2024 04:00PM



Entergy Louisiana, LLC
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Account # 32108060
Invoice # 2026043673
Mail Date 06/06/2024
Page 3 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Usage Adjustments

Total kWh		4581000
Contract Power kW	(09/2023)	9523.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - On	0.8551	7203.00
PF-Adjusted kW - Off	0.8843	8236.00
Billed kW		8236.00

MB D MAB8



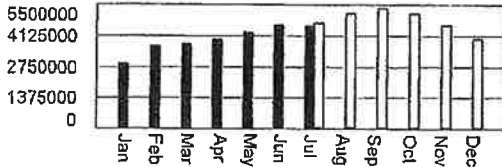
Entergy Louisiana, LLC
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Service Location
Main Campus
Baton Rouge, LA 70807
Page 1 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2024	2023
Jul 2024	30	4533000	151100.0		
Jul 2023	30	4686000	156200.0		



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Please add \$1 to total bill amount for **The Power to Care**. Learn more at entergy.com.

Account Summary for Southern University

Account # 32108060	Mail Date 07/05/2024	QPC 04000
Invoice # 20009695315	Cycle 06	
Amount Due by 07/29/2024		\$293,013.98

Account Detail

Previous Balance	280,209.36
Payment Received (06/24/2024)	-280,209.36
Remaining Balance	\$0.00

Current Charges

Demand Charge	7968 kW @ \$6.49	51,712.32
Energy Charge	4533000 kWh @ \$0.01034	46,871.22
AMS Charge		2.41
Formula Rate Plan	@ 69.5569%	68,573.33
2005 Hurricane Offset Charge	@ -0.5601%	-552.18
2008 Hurricane Offset Charge	@ -0.2821%	-278.11
2012 Hurricane Offset Charge	@ -0.0856%	-84.39
2020 Hurricane Offset Charge	@ -1.3287%	-1,309.91
2021 Hurricane Offset Charge	@ -0.0352%	-34.70
Fuel Adjustment	4533000 kWh @ \$0.02212	100,269.96
Fuel Tracker Rider Schedule FT	4533000 kWh @ \$0.00041	1,858.53
Federal Mandated EAC Rider	4533000 kWh @ \$0.00004	181.32
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$267,359.80

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -0.0897%		-0.04
Fuel Adjustment	734.60 kWh @ \$0.02304			16.93
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$0.00043			0.32



entergy-louisiana.com

Henry Thurman III
7/10/24

Account 32108060

QPC 04000

Invoice # 20009695315

Customer Service
800-766-1648

Amount Due by 07/29/2024

\$293,013.98

~~\$262,702.19~~

Please send stub with check payable to Entergy. Thank You.

SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
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BATON ROUGE, LA 70891-8103

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MB D MARS

(see attached)



Entergy Louisiana, LLC
entergy-louisiana.com

Invoice # 20009695315
Mail Date 07/05/2024
Page 2 of 3

Customer Service, Outages or Safety Concerns

NB D MARS

Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000023	0.02
Federal Mandated EAC Rider	734.60 kWh @ \$0.000041	0.03
Total Security Lighting Charges	(06/05/2024 - 07/03/2024)	\$91.68

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 74.4315%		26.01
2005 Hurricane Offset Charge		@ -0.8397%		-0.29
2008 Hurricane Offset Charge		@ -0.5384%		-0.19
2012 Hurricane Offset Charge		@ -0.2748%		-0.10
2020 Hurricane Offset Charge		@ -2.4644%		-0.86
2021 Hurricane Offset Charge		@ -0.0897%		-0.03
Fuel Adjustment	1075 kWh @ \$0.02304			24.77
Fuel Tracker Rider Schedule FT	1075 kWh @ \$0.00043			0.46
Fuel Stabilization Pilot Rider	1075 kWh @ \$0.000023			0.02
Federal Mandated EAC Rider	1075 kWh @ \$0.000041			0.04
Total Street and Highway Lighting Charges	(06/05/2024 - 07/03/2024)			\$84.77

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		14,010.68
Total Other Unmetered Charges	(06/05/2024 - 07/03/2024)			\$14,010.68
LURC 2012 Hurricane Charge	@ 0.3428%			337.95
LURC 2012 Hurricane Charge	@ 1.3479%			1.06
LURC 2020 Hurricane Charge	@ 8.4337%			8,314.44
LURC 2020 Hurricane Charge	@ 18.6407%			14.66
LURC 2021 Hurricane Charge	@ 2.8312%			2,791.17
LURC 2021 Hurricane Charge	@ 9.8861%			7.77

Current Month Energy Charges \$293,013.98

Meter Reading (Contract 3398534)

Meter # 7857303	Rate : GS_LPS5	
Total Days (30)		
Current Meter Reading	(06/30/2024 11:59 PM)	25089
Previous Meter Reading	(05/31/2024 11:59 PM)	- 24764
Difference		325
Multiplier		x 9000
kWh Metered		2925000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	5010 kW	06/25/2024 12:00PM
Off Peak	4361 kW	06/25/2024 08:00AM
On Peak	2817.00 KVAR	06/25/2024 12:00PM
Off Peak	2853.00 KVAR	06/25/2024 08:00AM

Meter Reading (Contract 3398534)

Meter # 7868565	Rate : GS_LPS5	
Total Days (30)		
Current Meter Reading	(06/30/2024 11:59 PM)	11600
Previous Meter Reading	(05/31/2024 11:59 PM)	- 11466
Difference		134
Multiplier		x 12000
kWh Metered		1608000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	2761 kW	06/25/2024 12:00PM
Off Peak	2586 kW	06/25/2024 08:00AM
On Peak	1424.00 KVAR	06/25/2024 12:00PM
Off Peak	1351.00 KVAR	06/25/2024 08:00AM

Usage Adjustments

Total kWh		4533000
Contract Power kW	(09/2023)	9523.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - On	0.8778	7968.00
PF Adjusted kW - Off	0.8555	7308.00
Billed kW		7968.00

MB - D MAB8



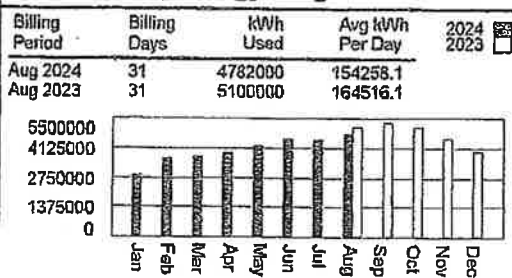
Entergy Louisiana, LLC
entergy-louisiana.com

Service Location
Main Campus
Baton Rouge, LA 70807

Page 1 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage



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Please add \$1 to total bill amount for The Power to Care. Learn more at entergy.com.

Handwritten signature
8/30/2024

Account Summary for Southern University

Account # 32108060 Mail Date 08/06/2024 QPC 04000
Invoice # 2026091937 Cycle 06

**** PAST DUE PAY NOW **** \$30,311.79

Amount Due by 08/28/2024 \$307,847.82

Total Due \$338,159.61

****Pay PAST DUE Amount NOW. ****

Account Detail

Previous Balance	293,013.98
Payment Received (07/15/2024)	-262,702.19
Remaining Balance (Due Now)	\$30,311.79

Current Charges

Demand Charge	8171 kW @ \$6.49	53,029.79
Energy Charge	4782000 kWh @ \$0.01034	49,445.88
AMS Charge		2.41
Formula Rate Plan	@ 69.5569%	71,280.58
2005 Hurricane Offset Charge	@ -0.5601%	-573.98
2008 Hurricane Offset Charge	@ -0.2821%	-289.09
2012 Hurricane Offset Charge	@ -0.0856%	-87.72
2020 Hurricane Offset Charge	@ -1.3287%	-1,361.63
2021 Hurricane Offset Charge	@ -1.2269%	-1,257.30
Fuel Adjustment	4782000 kWh @ \$0.02285	109,268.70
Fuel Tracker Rider Schedule FT	4782000 kWh @ \$0.00041	1,960.62
Federal Mandated EAC Rider	4782000 kWh @ \$0.000027	129.11
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$281,697.37

Security Lighting Billing

- Rate -	Qty	- Facility Type -	- kWh -	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 74.4315%		32.53
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -3.1127%		-1.36



entergy-louisiana.com

Account 32108060

QPC 04000

Invoice # 2026091937

Customer Service
800-766-1648

**** PAST DUE PAY NOW **** \$30,311.79

Amount Due by 08/28/2024 \$307,847.82

Total Due \$338,159.61

Due date does not apply to any previous balance already past due.
Please send stub with check payable to Entergy. Thank You.

SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
PO BOX 8103
BATON ROUGE, LA 70891-8103

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Fuel Adjustment	734.60 kWh @ \$0.02378	17.47
Fuel Tracker Rider Schedule FT	734.60 kWh @ \$0.00043	0.32
Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000017	0.01
Federal Mandated EAC Rider	734.60 kWh @ \$0.000028	0.02
Total Security Lighting Charges	(07/04/2024 - 08/02/2024)	\$90.88

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 74.4315%		26.01
2005 Hurricane Offset Charge		@ -0.8397%		-0.29
2008 Hurricane Offset Charge		@ -0.5384%		-0.19
2012 Hurricane Offset Charge		@ -0.2748%		-0.10
2020 Hurricane Offset Charge		@ -2.4644%		-0.86
2021 Hurricane Offset Charge		@ -3.1127%		-1.09
Fuel Adjustment	1075 kWh @ \$0.02378			25.56
Fuel Tracker Rider Schedule FT	1075 kWh @ \$0.00043			0.46
Fuel Stabilization Pilot Rider	1075 kWh @ \$0.000017			0.02
Federal Mandated EAC Rider	1075 kWh @ \$0.000028			0.03
Total Street and Highway Lighting Charges	(07/04/2024 - 08/02/2024)			\$84.49

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		14,010.68
Total Other Unmetered Charges	(07/04/2024 - 08/02/2024)			\$14,010.68
LURC 2012 Hurricane Charge	@ 0.3428%			351.29
LURC 2012 Hurricane Charge	@ 1.3479%			1.06
LURC 2020 Hurricane Charge	@ 8.4337%			8,642.69
LURC 2020 Hurricane Charge	@ 18.6407%			14.66
LURC 2021 Hurricane Charge	@ 2.8756%			2,946.86
LURC 2021 Hurricane Charge	@ 9.9671%			7.84

Current Month Energy Charges	\$307,847.82
Total Amount Due	\$338,159.61

Meter Reading (Contract 3398534)

Meter # 7867303	Rate : GS_LPS5
Total Days (31)	
Current Meter Reading	(07/31/2024 11:59 PM) 25463
Previous Meter Reading	(06/30/2024 11:59 PM) - 25089
Difference	374
Multiplier	x 9000
kWh Metered	3366000

Time of Use Detail		
Type of Reading	Usage	Date and Time
On Peak	4443 kW	07/09/2024 09:30AM
Off Peak	4130 kW	07/03/2024 08:00AM
On Peak	2812.00 KVAR	07/09/2024 09:30AM
Off Peak	2824.00 KVAR	07/03/2024 08:00AM

Meter Reading (Contract 3398534)

Meter # 7868565	Rate : GS_LPS5
Total Days (31)	
Current Meter Reading	(07/31/2024 11:59 PM) 11718
Previous Meter Reading	(06/30/2024 11:59 PM) - 11600
Difference	118
Multiplier	x 12000
kWh Metered	1416000

Time of Use Detail		
Type of Reading	Usage	Date and Time
On Peak	3349 kW	07/09/2024 09:30AM
Off Peak	2753 kW	07/03/2024 08:00AM
On Peak	1848.00 KVAR	07/09/2024 09:30AM
Off Peak	1572.00 KVAR	07/03/2024 08:00AM

Usage Adjustments

Total kWh		4782000
Contract Power kW	(09/2023)	9523.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - On	0.8583	8171.00
PF Adjusted kW - Off	0.8428	7350.00
Billed kW		8171.00



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Service Location
Main Campus
Baton Rouge, LA 70807

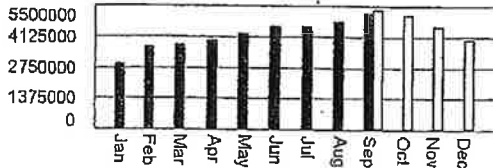
Page 1 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2024 2023
Sep 2024	31	5154000	166258.1	
Sep 2023	31	5316000	171483.9	



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Henry J. Johnson
9/16/2024

Account Summary for Southern University

Account # 32108060 Mail Date 09/11/2024 QPC 04000
Invoice # 2026118137 Cycle 06

Amount Due by 10/03/2024 \$12,325.13

Account Detail

Previous Balance	338,159.61
Payment Received (08/12/2024)	-30,311.79
Payment Received (09/05/2024)	-307,847.82
Payment Received (09/06/2024)	-307,847.82
Remaining Balance	-\$307,847.82

Current Charges

Demand Charge	8295 kW @ \$6.49	53,834.55
Energy Charge	5154000 kWh @ \$0.01034	53,292.36
AMS Charge		2.41
Formula Rate Plan	@ 78.613%	84,217.57
2005 Hurricane Offset Charge	@ -0.5601%	-600.03
2008 Hurricane Offset Charge	@ -0.2821%	-302.21
2012 Hurricane Offset Charge	@ -0.0856%	-91.70
2020 Hurricane Offset Charge	@ -1.3287%	-1,423.43
2021 Hurricane Offset Charge	@ -1.2269%	-1,314.37
Fuel Adjustment	5154000 kWh @ \$0.0213	109,780.20
Federal Mandated EAC Rider	5154000 kWh @ \$0.000055	283.47
EECR-QS Rider		73.19
EECR-PE Rider		74.49
Total Metered Charges (Contract 3398534)		\$297,826.50

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 85.3435%		37.30
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -3.1127%		-1.36
Fuel Adjustment	734.60 kWh @ \$0.02218			16.29
Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000015			0.01
Federal Mandated EAC Rider	734.60 kWh @ \$0.000057			0.04



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Account 32108060

QPC 04000

Invoice # 2026118137

Customer Service
800-766-1648

Amount Due by 10/03/2024

\$12,325.13

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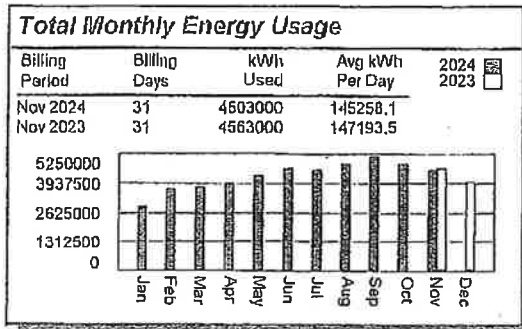
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Service Location
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Handwritten signature
11/12/24

Account Summary for Southern University

Account # 32108060	Mail Date 11/05/2024	QPC 04000
Invoice # 2026155195	Cycle 06	
Amount Due by 11/27/2024		\$272,903.08

Account Detail

Previous Balance	299,099.93
Payment Received (10/18/2024)	-299,099.93
Remaining Balance	\$0.00

Current Charges

Demand Charge	8689 kW @ \$5.67	49,266.63
Energy Charge	4503000 kWh @ \$0.01034	46,561.02
AMS Charge		2.41
Formula Rate Plan	@ 78.613%	75,334.89
Resilience Cost Recovery	@ 0.014%	13.42
2005 Hurricane Offset Charge	@ -0.5601%	-536.74
2008 Hurricane Offset Charge	@ -0.2821%	-270.34
2012 Hurricane Offset Charge	@ -0.0856%	-82.03
2020 Hurricane Offset Charge	@ -1.3287%	-1,273.29
2021 Hurricane Offset Charge	@ -1.2269%	-1,175.74
Fuel Adjustment	4503000 kWh @ \$0.01858	83,665.74
Federal Mandated EAC Rider	4503000 kWh @ \$0.000029	130.59
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$251,786.56

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 85.3435%		37.30
Resilience Cost Recovery		@ 0.1083%		0.05
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -3.1127%		-1.36
Fuel Adjustment		734.60 kWh @ \$0.01937		14.23



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Account 32108060

QPC 04000

Invoice # 2026155195

Customer Service
800-766-1648

Amount Due by 11/27/2024

\$272,903.08

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Account # 32108060
Invoice # 2026155195
Mail Date 11/05/2024
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

MS D MAB3

Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000012	0.01
Federal Mandated EAC Rider	734.60 kWh @ \$0.000031	0.02
Total Security Lighting Charges	(10/04/2024 - 11/01/2024)	\$92.14

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 85.3435%		29.82
Resilience Cost Recovery		@ 0.1083%		0.04
2005 Hurricane Offset Charge		@ -0.8397%		-0.29
2008 Hurricane Offset Charge		@ -0.5384%		-0.19
2012 Hurricane Offset Charge		@ -0.2748%		-0.10
2020 Hurricane Offset Charge		@ -2.4644%		-0.86
2021 Hurricane Offset Charge		@ -3.1127%		-1.09
Fuel Adjustment	1075 kWh @	\$0.01937		20.82
Fuel Stabilization Pilot Rider	1075 kWh @	\$0.000012		0.01
Federal Mandated EAC Rider	1075 kWh @	\$0.000031		0.03
Total Street and Highway Lighting Charges	(10/04/2024 - 11/01/2024)			\$83.13

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		9,657.43
Total Other Unmetered Charges	(10/04/2024 - 11/01/2024)			\$9,657.43
LURC 2012 Hurricane Charge		@ 0.2856%		273.69
LURC 2012 Hurricane Charge		@ 1.2832%		1.01
LURC 2020 Hurricane Charge		@ 8.5887%		8,230.56
LURC 2020 Hurricane Charge		@ 19.1158%		15.03
LURC 2021 Hurricane Charge		@ 2.8756%		2,755.69
LURC 2021 Hurricane Charge		@ 9.9671%		7.84

Current Month Energy Charges **\$272,903.08**

Meter Reading (Contract 3398534)

Meter # 7857303	Rate : GS_LPS5
Total Days (31)	
Current Meter Reading	(10/31/2024 11:59 PM) 26495
Previous Meter Reading	(09/30/2024 11:59 PM) - 26156
Difference	339
Multiplier	x 9000
kWh Metered	3051000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	5123 kW	10/01/2024 03:30PM
Off Peak	4320 kW	10/06/2024 06:00PM
On Peak	2618.00 KVAR	10/01/2024 03:30PM
Off Peak	2398.00 KVAR	10/06/2024 06:00PM

Meter Reading (Contract 3398534)

Meter # 7868565	Rate : GS_LPS5
Total Days (31)	
Current Meter Reading	(10/31/2024 11:59 PM) 12148
Previous Meter Reading	(09/30/2024 11:59 PM) - 12027
Difference	121
Multiplier	x 12000
kWh Metered	1452000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	3422 kW	10/01/2024 03:30PM
Off Peak	3941 kW	10/06/2024 06:00PM
On Peak	1874.00 KVAR	10/01/2024 03:30PM
Off Peak	2255.00 KVAR	10/06/2024 06:00PM



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Account # 32108060
Invoice # 2026155195
Mail Date 11/05/2024
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Usage Adjustments

Total kWh		4503000
Contract Power kW	(10/2024)	8740.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - On	0.8851	8689.00
PF Adjusted kW - Off	0.8713	8533.00
Billed kW		8689.00

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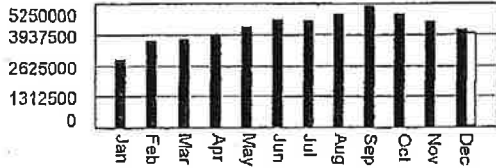
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2024 2023
Dec 2024	30	4149000	138300.0	
Dec 2023	30	3996000	133200.0	



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Henry L. Thurman III
12/13/2024

Account Summary for Southern University

Account # 32108060 Mail Date 12/05/2024 QPC 04000
Invoice # 2026171442 Cycle 06

Amount Due by 12/27/2024 \$252,384.71

Account Detail

Previous Balance 272,903.08
Payment Received (11/20/2024) -272,903.08
Remaining Balance \$0.00

Current Charges

Demand Charge	8065 kW @ \$5.67	45,728.55
Energy Charge	4149000 kWh @ \$0.01034	42,900.66
AMS Charge		2.41
Formula Rate Plan	@ 78.613%	69,675.98
Resilience Cost Recovery	@ 0.014%	12.41
2005 Hurricane Offset Charge	@ -0.5601%	-496.43
2008 Hurricane Offset Charge	@ -0.2821%	-250.03
2012 Hurricane Offset Charge	@ -0.0856%	-75.87
2020 Hurricane Offset Charge	@ -1.3287%	-1,177.65
2021 Hurricane Offset Charge	@ -1.2269%	-1,087.42
Fuel Adjustment	4149000 kWh @ \$0.01845	76,549.05
Federal Mandated EAC Rider	4149000 kWh @ \$0.000044	182.56
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$232,114.22

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 85.3435%		37.30
Resilience Cost Recovery		@ 0.1083%		0.05
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -3.1127%		-1.36
Fuel Adjustment		734.60 kWh @ \$0.01924		14.13



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Account 32108060

QPC 04000

Invoice # 2026171442

Customer Service
800-766-1648

Amount Due by 12/27/2024

\$252,384.71

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Account # 32108060
Invoice # 2026171442
Mail Date 12/05/2024
Page 2 of 3

Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

MS D MARS

Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000011	0.01
Federal Mandated EAC Rider	734.60 kWh @ \$0.000046	0.03
Total Security Lighting Charges	(11/02/2024 - 12/03/2024)	\$92.05

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 85.3435%		29.82
Resilience Cost Recovery		@ 0.1083%		0.04
2005 Hurricane Offset Charge		@ -0.8397%		-0.29
2008 Hurricane Offset Charge		@ -0.5384%		-0.19
2012 Hurricane Offset Charge		@ -0.2748%		-0.10
2020 Hurricane Offset Charge		@ -2.4644%		-0.86
2021 Hurricane Offset Charge		@ -3.1127%		-1.09
Fuel Adjustment	1075 kWh @	\$0.01924		20.68
Fuel Stabilization Pilot Rider	1075 kWh @	\$0.000011		0.01
Federal Mandated EAC Rider	1075 kWh @	\$0.000046		0.05
Total Street and Highway Lighting Charges	(11/02/2024 - 12/03/2024)			\$83.01

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		9,657.43
Total Other Unmetered Charges	(11/02/2024 - 12/03/2024)			\$9,657.43
LURC 2012 Hurricane Charge		@ 0.2856%		253.13
LURC 2012 Hurricane Charge		@ 1.2832%		1.01
LURC 2020 Hurricane Charge		@ 8.5887%		7,612.30
LURC 2020 Hurricane Charge		@ 19.1158%		15.03
LURC 2021 Hurricane Charge		@ 2.8756%		2,548.69
LURC 2021 Hurricane Charge		@ 9.9671%		7.84
Current Month Energy Charges				\$252,384.71

Meter Reading (Contract 3398534)

Meter # 7857303	Rate : GS_LPS5
Total Days (30)	
Current Meter Reading	(11/30/2024 11:59 PM) 26804
Previous Meter Reading	(10/31/2024 11:59 PM) - 26495
Difference	309
Multiplier	x 9000
kWh Metered	2781000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	0 kW	11/01/2024 00:30AM
Off Peak	4856 kW	11/04/2024 01:00PM
On Peak	0.00 KVAR	11/01/2024 00:30AM
Off Peak	2360.00 KVAR	11/04/2024 01:00PM

Meter Reading (Contract 3398534)

Meter # 7868565	Rate : GS_LPS5
Total Days (30)	
Current Meter Reading	(11/30/2024 11:59 PM) 12262
Previous Meter Reading	(10/31/2024 11:59 PM) - 12148
Difference	114
Multiplier	x 12000
kWh Metered	1368000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	0 kW	11/01/2024 00:30AM
Off Peak	3126 kW	11/04/2024 01:00PM
On Peak	0.00 KVAR	11/01/2024 00:30AM
Off Peak	1712.00 KVAR	11/04/2024 01:00PM



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Account # 32108060
Invoice # 2026171442
Mail Date 12/05/2024
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Usage Adjustments

Total kWh		4149000
Contract Power kW	(10/2024)	8740.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - Off	0.8908	8065.00
Billed kW		8065.00

MB D MAB8



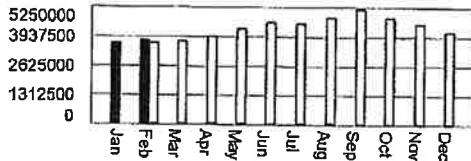
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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2025 2024
Feb 2025	31	3750000	120967.7	
Feb 2024	31	3654000	117871.0	



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Account Summary for Southern University

Account # 32108060	Mail Date 02/07/2025	QPC 04000
Invoice # 2026228950	Cycle 06	
Amount Due by 03/03/2025		\$251,297.90

Account Detail

Previous Balance	222,005.87
Payment Received (01/24/2025)	-222,005.87
Remaining Balance	\$0.00

Current Charges

Demand Charge	7366 kW @ \$5.87	41,765.22
Energy Charge	3750000 kWh @ \$0.01034	38,775.00
AMS Charge		2.20
Formula Rate Plan	@ 76.4406%	61,567.11
Resilience Cost Recovery	@ 0.014%	11.28
2005 Hurricane Offset Charge	@ -0.5601%	-451.12
2008 Hurricane Offset Charge	@ -0.2821%	-227.21
2012 Hurricane Offset Charge	@ -0.0856%	-68.94
2020 Hurricane Offset Charge	@ -1.3287%	-1,070.17
2021 Hurricane Offset Charge	@ -1.2269%	-988.17
Fuel Adjustment	3750000 kWh @ \$0.0246	92,250.00
Federal Mandated EAC Rider	3750000 kWh @ \$0.000043	161.25
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$231,876.45

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 83.1711%		36.35
Resilience Cost Recovery		@ 0.1083%		0.05
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -3.1127%		-1.36
Fuel Adjustment	734.60 kWh @ \$0.02562			18.82



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Henry Thurman, III
2/12/25

Account 32108060

QPC 04000

Invoice # 2026228950

Customer Service
800-766-1648

Amount Due by 03/03/2025

\$251,297.90

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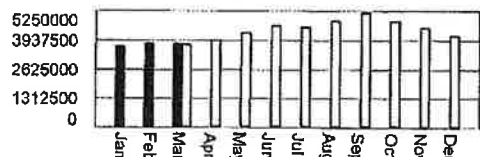
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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2025	2024
Mar 2025	28	3747000	133821.4		
Mar 2024	29	3732000	128689.7		



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Account Summary for Southern University

Account # 32108060 Mail Date 03/11/2025 QPC 04000
Invoice # 2026244843 Cycle 06

** PAST DUE PAY NOW **	\$251,297.90
Amount Due by 04/02/2025	\$284,876.68
Total Due	\$536,174.58

Pay PAST DUE Amount NOW.

Account Detail

Remaining Balance (Due Now) \$251,297.90

Current Charges

Demand Charge	7366 kW @ \$5.67	41,765.22
Energy Charge	3747000 kWh @ \$0.01034	38,743.98
AMS Charge		2.20
Formula Rate Plan	@ 73.4176%	59,109.54
Resilience Cost Recovery	@ 0.373%	300.31
2005 Hurricane Offset Charge	@ -0.5601%	-450.94
2008 Hurricane Offset Charge	@ -0.2821%	-227.12
2012 Hurricane Offset Charge	@ -0.0856%	-68.92
2020 Hurricane Offset Charge	@ -1.3287%	-1,069.75
2021 Hurricane Offset Charge	@ -1.2269%	-987.79
Fuel Adjustment	3747000 kWh @ \$0.03417	128,034.99
Federal Mandated EAC Rider	3747000 kWh @ \$0.000037	138.64
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$265,440.36

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 81.0982%		35.44
Resilience Cost Recovery		@ 2.9505%		1.29
2005 Hurricane Offset Charge		@ -0.8397%		-0.37
2008 Hurricane Offset Charge		@ -0.5384%		-0.24
2012 Hurricane Offset Charge		@ -0.2748%		-0.12
2020 Hurricane Offset Charge		@ -2.4644%		-1.08
2021 Hurricane Offset Charge		@ -3.1127%		-1.36
Fuel Adjustment	734.60 kWh @ \$0.03554			26.11



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Henry L. Thurman, III

3/14/25

Account 32108060

QPC 04000

Invoice # 2026244843

Customer Service 800-766-1648	** PAST DUE PAY NOW **	\$251,297.90
	Amount Due by 04/02/2025	\$284,876.68
	Total Due	\$536,174.58

Due date does not apply to any previous balance already past due.
Please send stub with check payable to Entergy. Thank You.

SOUTHERN UNIVERSITY
COMPTROLLER'S OFFICE
PO BOX 9494
BATON ROUGE LA 70813

ENTERGY
PO BOX 8103
BATON ROUGE, LA 70891-8103

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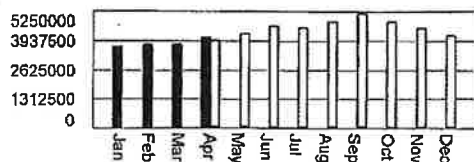
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Service Location
Main Campus
Baton Rouge, LA 70807
Page 1 of 3

Entergy Business Center, 800-766-1648, 24hrs
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Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2025 2024
Apr 2025	31	4088000	131225.8	
Apr 2024	31	3930000	126774.2	



Important Messages

See your daily cost and usage to help manage your bill. Visit entergy.com/myAdvisor.

IMPORTANT NOTICE: Sending an eligible check payment authorizes Entergy to convert your paper check to an electronic debit. For more information call 1-888-627-6695. For more energy saving tips, visit entergy.com.

Please add \$1 to total bill amount for **The Power to Care**. Learn more at entergy.com.

Account Summary for Southern University

Account # 32108060 Mail Date 04/08/2025 QPC 04000
Invoice # 2026259698 Cycle 06

Amount Due by 04/30/2025 \$316,774.53

Account Detail

Previous Balance		536,174.58
Payment Received	(03/21/2025)	-284,876.68
Payment Received	(03/26/2025)	-251,297.90
Payment Received	(03/31/2025)	-251,297.90
Returned Check Charge	(04/02/2025)	20.00
Returned Check Amount	(04/02/2025)	251,297.90
Remaining Balance		\$20.00

Current Charges

Demand Charge	7366 kW @ \$5.67	41,765.22
Energy Charge	4068000 kWh @ \$0.01034	42,063.12
AMS Charge		2.20
Formula Rate Plan	@ 73.4176%	61,548.37
Resilience Cost Recovery	@ 0.373%	312.69
2005 Hurricane Offset Charge	@ -0.5048%	-423.18
2008 Hurricane Offset Charge	@ -0.5286%	-443.13
2012 Hurricane Offset Charge	@ -0.0647%	-54.24
2020 Hurricane Offset Charge	@ -1.2521%	-1,049.64
2021 Hurricane Offset Charge	@ -1.2269%	-1,028.52
Fuel Adjustment	4068000 kWh @ \$0.03792	154,258.56
Federal Mandated EAC Rider	4068000 kWh @ \$0.000037	150.52
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$297,249.97

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 81.0982%		35.44
Resilience Cost Recovery		@ 2.9505%		1.29
2005 Hurricane Offset Charge		@ -0.7719%		-0.34
2008 Hurricane Offset Charge		@ -1.0377%		-0.45
2012 Hurricane Offset Charge		@ -0.2163%		-0.09

Henry Thurman, III
4/15/25



entergy-louisiana.com

Account 32108060

QPC 04000

Invoice # 2026259698

Customer Service 800-766-1648	Amount Due by 04/30/2025	\$316,774.53
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BATON ROUGE LA 70813

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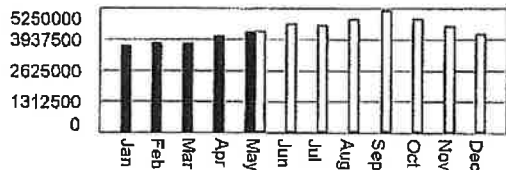
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

Total Monthly Energy Usage

Billing Period	Billing Days	kWh Used	Avg kWh Per Day	2025 <input type="checkbox"/> 2024 <input type="checkbox"/>
May 2025	30	4242000	141400.0	
May 2024	30	4263000	142100.0	



Important Messages

Thank you for the prompt way you pay your bill.

See your daily cost and usage to help manage your bill. Visit entergy.com/myAdvisor.

Recently changed Banks? Or was your Bank recently merged or acquired? Returned bill payments can happen with old banking information. Avoid payment return fees and late fees by keeping your ABA routing number and bank account number updated in MyEntergy and Mobile App.

IMPORTANT NOTICE: Sending an eligible check payment authorizes Entergy to convert your paper check to an electronic debit. For more information call 1-888-627-6695. For more energy saving tips, visit entergy.com.

Please add \$1 to total bill amount for **The Power to Care**. Learn more at entergy.com.

Henry L. Thurman III
5/13/2025

Account Summary for Southern University

Account # 32108060	Mail Date 05/06/2025	QPC 04000
Invoice # 2026275157		Cycle 06
Amount Due by 05/28/2025		\$331,022.80

Account Detail

Previous Balance	316,774.53
Payment Received (04/21/2025)	-316,774.53
Remaining Balance	\$0.00

Current Charges

Demand Charge	7642 kW @ \$6.49	49,596.58
Energy Charge	4242000 kWh @ \$0.01034	43,862.28
AMS Charge		2.20
Formula Rate Plan	@ 73.4176%	68,616.87
Resilience Cost Recovery	@ 0.373%	348.61
2005 Hurricane Offset Charge	@ -0.5048%	-471.79
2008 Hurricane Offset Charge	@ -0.5286%	-494.04
2012 Hurricane Offset Charge	@ -0.0647%	-60.47
2020 Hurricane Offset Charge	@ -1.2521%	-1,170.23
2021 Hurricane Offset Charge	@ -1.2269%	-1,146.67
Fuel Adjustment	4242000 kWh @ \$0.0356	151,015.20
Federal Mandated EAC Rider	4242000 kWh @ \$0.00004	169.68
EECR-QS Rider		75.00
EECR-PE Rider		75.00
Total Metered Charges (Contract 3398534)		\$310,418.22

Security Lighting Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
AL15	2	1000W Hps	734.6	43.70
Formula Rate Plan		@ 81.0982%		35.44
Resilience Cost Recovery		@ 2.9505%		1.29
2005 Hurricane Offset Charge		@ -0.7719%		-0.34
2008 Hurricane Offset Charge		@ -1.0377%		-0.45
2012 Hurricane Offset Charge		@ -0.2163%		-0.09
2020 Hurricane Offset Charge		@ -2.3489%		-1.03
2021 Hurricane Offset Charge		@ -3.1127%		-1.36
Fuel Adjustment	734.60 kWh @ \$0.037			27.18



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Account 32108060

QPC 04000

Invoice # 2026275157

Customer Service
800-766-1648

Amount Due by 05/28/2025

\$331,022.80

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Account # 32108060
Invoice # 2026275157
Mail Date 05/06/2025
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Entergy Business Center, 800-766-1648, 24hrs
Customer Service, Outages or Safety Concerns

MB D MAB3

Fuel Stabilization Pilot Rider	734.60 kWh @ \$0.000007	0.01
Federal Mandated EAC Rider	734.60 kWh @ \$0.000042	0.03
Total Security Lighting Charges	(04/04/2025 - 05/02/2025)	\$104.38

Street and Highway Lighting

-- Rate --	Qty	-- Facility Type --	-- kWh --	
SHL4	1	Energy Charge	1075.0	34.94
Formula Rate Plan		@ 81.0982%		28.34
Resilience Cost Recovery		@ 2.9505%		1.03
2005 Hurricane Offset Charge		@ -0.7719%		-0.27
2008 Hurricane Offset Charge		@ -1.0377%		-0.36
2012 Hurricane Offset Charge		@ -0.2163%		-0.08
2020 Hurricane Offset Charge		@ -2.3489%		-0.82
2021 Hurricane Offset Charge		@ -3.1127%		-1.09
Fuel Adjustment	1075 kWh	@ \$0.037		39.78
Fuel Stabilization Pilot Rider	1075 kWh	@ \$0.000007		0.01
Federal Mandated EAC Rider	1075 kWh	@ \$0.000042		0.05
Total Street and Highway Lighting Charges	(04/04/2025 - 05/02/2025)			\$101.53

Other Unmetered Billing

-- Rate --	Qty	-- Facility Type --	-- kWh --	
FC3	1	Facilities Charge		9,657.43
Total Other Unmetered Charges	(04/04/2025 - 05/02/2025)			\$9,657.43
LURC 2012 Hurricane Charge		@ 0.3115%		291.13
LURC 2012 Hurricane Charge		@ 1.2951%		1.02
LURC 2020 Hurricane Charge		@ 8.1669%		7,632.87
LURC 2020 Hurricane Charge		@ 18.4837%		14.54
LURC 2021 Hurricane Charge		@ 2.9893%		2,793.83
LURC 2021 Hurricane Charge		@ 9.9789%		7.85
Current Month Energy Charges				\$331,022.80

Meter Reading (Contract 3398534)

Meter # 7857303	Rate : GS_LPS5
Total Days (30)	
Current Meter Reading	(04/30/2025 11:59 PM) 27967
Previous Meter Reading	(03/31/2025 11:59 PM) - 27965
Difference	2
Multiplier	x 9000
kWh Metered	18000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	0 kW	04/01/2025 00:30AM
Off Peak	23 kW	04/02/2025 02:00PM
On Peak	0.00 KVAR	04/01/2025 00:30AM
Off Peak	113.00 KVAR	04/02/2025 02:00PM

Meter Reading (Contract 3398534)

Meter # 7868565	Rate : GS_LPS5
Total Days (30)	
Current Meter Reading	(04/30/2025 11:59 PM) 13010
Previous Meter Reading	(03/31/2025 11:59 PM) - 12658
Difference	352
Multiplier	x 12000
kWh Metered	4224000

Time of Use Detail

Type of Reading	Usage	Date and Time
On Peak	0 kW	04/01/2025 00:30AM
Off Peak	7423 kW	04/02/2025 02:00PM
On Peak	0.00 KVAR	04/01/2025 00:30AM
Off Peak	3967.00 KVAR	04/02/2025 02:00PM



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Account # 32108060
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Mail Date 05/06/2025
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Entergy Business Center, 800-766-1648, 24hrs
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Usage Adjustments

Total kWh		4242000
Contract Power kW	(10/2024)	8740.00
All-Time High kW	(08/2000)	12277.00
PF Adjusted kW - Off	0.8770	7642.00
Billed kW		7642.00

MB D MAB8

Attachment C: SUBR Landmass Solar Energy Assessment

(This Assessment was conducted for the Southern University System Foundation and is for information only.)



SOUTHERN FOUNDATION

Information Technology Committee Meeting
Tuesday, January 28, 2025 @ 9AM
Southern University System Foundation
Zoom Video Conference Meeting
Agenda

Welcome

Julian Herbert
Chairman

Prayer

Roll Call

Alfred E. Harrell, III
Chief Executive Officer

- I. Consideration to submit the final Baton Rouge Landmass solar energy assessment to the Board of Supervisors and University.
- II. Review Phase I Foundation Information Technology assessment.

Adjournment

Julian Herbert

Members: Julian Herbert, Allison Young, Dexter Henderson, Eric Robinson and Jarell Johnson

Southern University Solar Program Funding Proposal

Project Overview: The Southern University Solar Program aims to create an energy-efficient, self-sustaining Historically Black College and University (HBCU) campus. This initiative will significantly enhance the university's sustainability efforts, reduce energy costs, and provide new educational opportunities for students. This project will create a template for not just HBCUs for all universities.

Key Components:

- **Solar Installation:** The project involves installing a 15.58 MW DC solar photovoltaic system using ZNSHINE PV-TECH Co. Ltd. modules and Chint Power Systems America inverters. The system will cover an area of 73,175 m² and is expected to generate 22,358,946 kWh of electricity annually
- **Financial Summary:** The full total installed cost of the project is \$39,491,779.
- **Cost Savings:** The solar system will result in significant cost savings for the university, reducing the annual electric bill from \$1,477,920 to \$101,279, saving approximately \$1,376,640 annually.
- **Educational Opportunities:** The project will create new educational programs focused on renewable energy and sustainability, providing students with hands-on learning experiences and preparing them for careers in the green energy sector.

Environmental Impact:

- **Reduction in Carbon Emissions:** The solar program will significantly reduce the university's carbon footprint by decreasing reliance on fossil fuels. The system is expected to offset approximately 15,000 metric tons of CO₂ annually, equivalent to the emissions from over 3,000 passenger vehicles driven for one year.
- **Promotion of Renewable Energy:** By adopting solar energy, Southern University will serve as a model for other institutions, promoting the use of renewable energy sources and contributing to national goals for clean energy adoption.
- **Sustainable Campus:** The project will enhance the university's sustainability profile, making it a leader in environmental stewardship among HBCUs. This aligns with the goals of both the USDA and the US Department of Energy to support sustainable and energy-efficient initiatives.

Benefits:

- **Energy Efficiency:** The solar program will make Southern University a model of energy efficiency and sustainability among HBCUs.
- **Cost Savings:** The significant reduction in energy costs will free up resources for other university initiatives and programs.
- **Educational Impact:** The new educational programs will enhance the university's curriculum and provide valuable learning opportunities for students.
- **Environmental Stewardship:** The project will contribute to reducing greenhouse gas emissions and promote the use of renewable energy sources.

Conclusion: The Southern University Solar Program is a transformative initiative that will create a self-sustaining, energy-efficient campus, provide significant cost savings, and offer new educational opportunities for students. We seek funding support from the government agency to make this vision a reality.

System Advisor Model Report

Detailed Photovoltaic
Commercial

15.6 DC MW Nameplate
\$2.53/W Installed Cost

30.53, -91.18 UTC -6
NSRDB

Performance Model		Financial Model	
Modules ZNSHINE PV-TECH Co. Ltd. ZXM7-SHDB144-545/M Cell material Mono-c-Si Module area 2.56 m ² Module capacity 545.02 DC Watts Quantity 28,584 Total capacity 15.58 DC MW Total area 73,175 m ²		Project Costs Total installed cost \$39,491,779 Salvage value \$197,458	
Inverters Chint Power Systems America: CPS SCH100KTL-AIO/US Unit capacity 100 AC kW MPPT Voltage Range 870 - 1300 VDC Nominal AC Voltage 600.0 VAC Quantity 122 Total capacity 12.2 AC MW DC to AC Capacity Ratio 1.28 AC losses (%) 0.00		Analysis Parameters Project life 25 years Inflation rate 2% Real discount rate 3%	
Array Strings 1,191 Modules per string 24 String Voc (DC V) 1200.00 Tilt (deg from horizontal) 11.00 Azimuth (deg E of N) 180 GCR 0.3 Tracking no Backtracking - Self shading no Rotation limit (deg) - Shading no Snow no Soiling yes DC losses (%) 3.47		Project Debt Parameters Debt fraction 70% Amount \$27,644,246 Term 20 years Rate 6%	
Performance Adjustments DC avail./curtail. 1% AC avail./curtail. 1% Degradation 0.5 %/yr Hourly or custom losses none		Tax and Insurance Rates Federal income tax 21 %/year State income tax 7 %/year Sales tax (% of indirect cost basis) 9.95% Insurance (% of installed cost) 0.3 %/year Property tax (% of assessed val.) 0 %/year	
Annual Results (in Year 1) GHI kWh/m ² /day 4.93 POA kWh/m ² /day 122.00 Net to inverter 25,159,918 DC kWh Net to grid 22,358,946 AC kWh Capacity factor 16.4 Performance ratio 0.75		Incentives Federal ITC 30%	
		Electricity Usage and Rate Summary Annual peak demand 8,185.5 kW Annual total usage 24,000,000 kWh Commercial and Small Power Service Schedule B Fixed charge: \$20/month Monthly excess with kWh rollover Annual rate escalation: 5%/year Tiered TOU energy rates: 1 period, 3 tiers	
		Results Nominal LCOE 7.4 cents/kWh Net present value \$5,999,900 Payback period 14 years	

Detailed Photovoltaic
Commercial

15.6 DC MW Nameplate

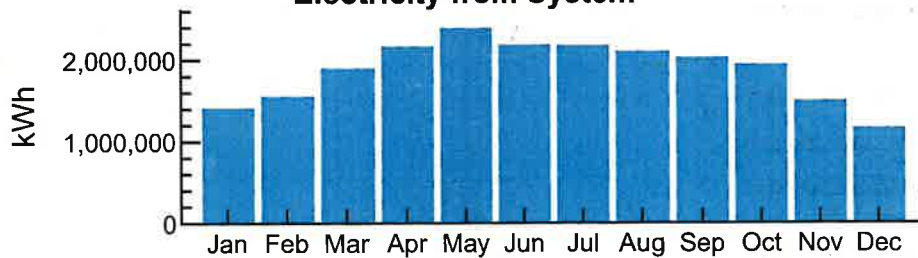
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\$2.53/W Installed Cost

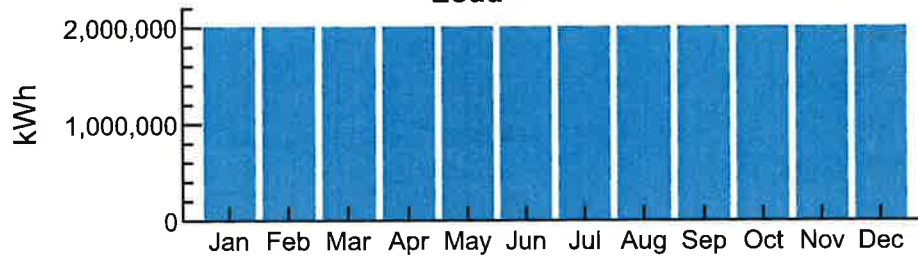
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Year 1 Monthly Generation and Load Summary

Electricity from System



Load



Year 1 Monthly Electric Bill and Savings (\$)

Month	Without System	With System	Savings
Jan	123,159	37,048	86,111
Feb	123,160	28,135	95,024
Mar	123,160	7,214	115,945
Apr	123,159	20	123,139
May	123,159	20	123,139
Jun	123,160	20	123,140
Jul	123,160	20	123,140
Aug	123,160	20	123,140
Sep	123,160	20	123,140
Oct	123,159	20	123,139
Nov	123,160	20	123,140
Dec	123,160	28,721	94,438
Annual	1,477,920	101,279	1,376,640

NPV Approximation using Annuities

Annuities, Capital Recovery Factor (CRF) = 0.0714

Investment	\$-845,600	Sum:
Expenses	\$-2,463,100	\$428,200
Savings	\$1,718,300	NPV = Sum / CRF:
Energy value	\$2,018,800	\$5,999,000

Investment = Installed Cost - Debt Principal - IBI - CBI

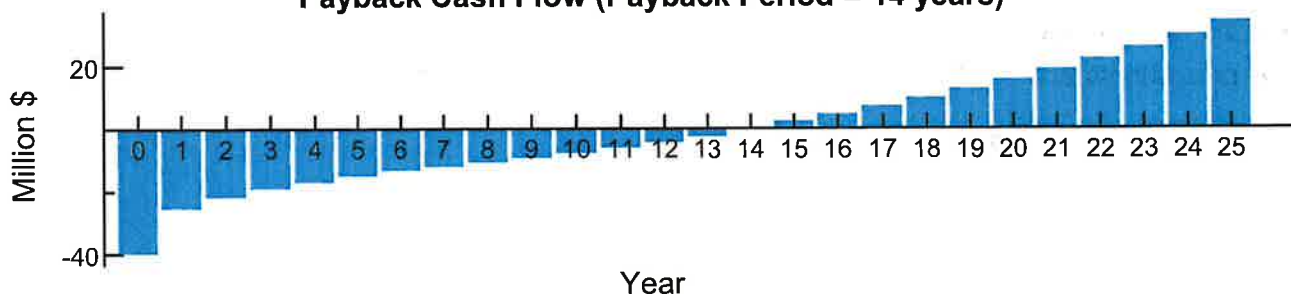
Expenses = Operating Costs + Debt Payments

Savings = Tax Deductions + PBI

Energy value = Tax Adjusted Net Savings

Nominal discount rate = 5.06%

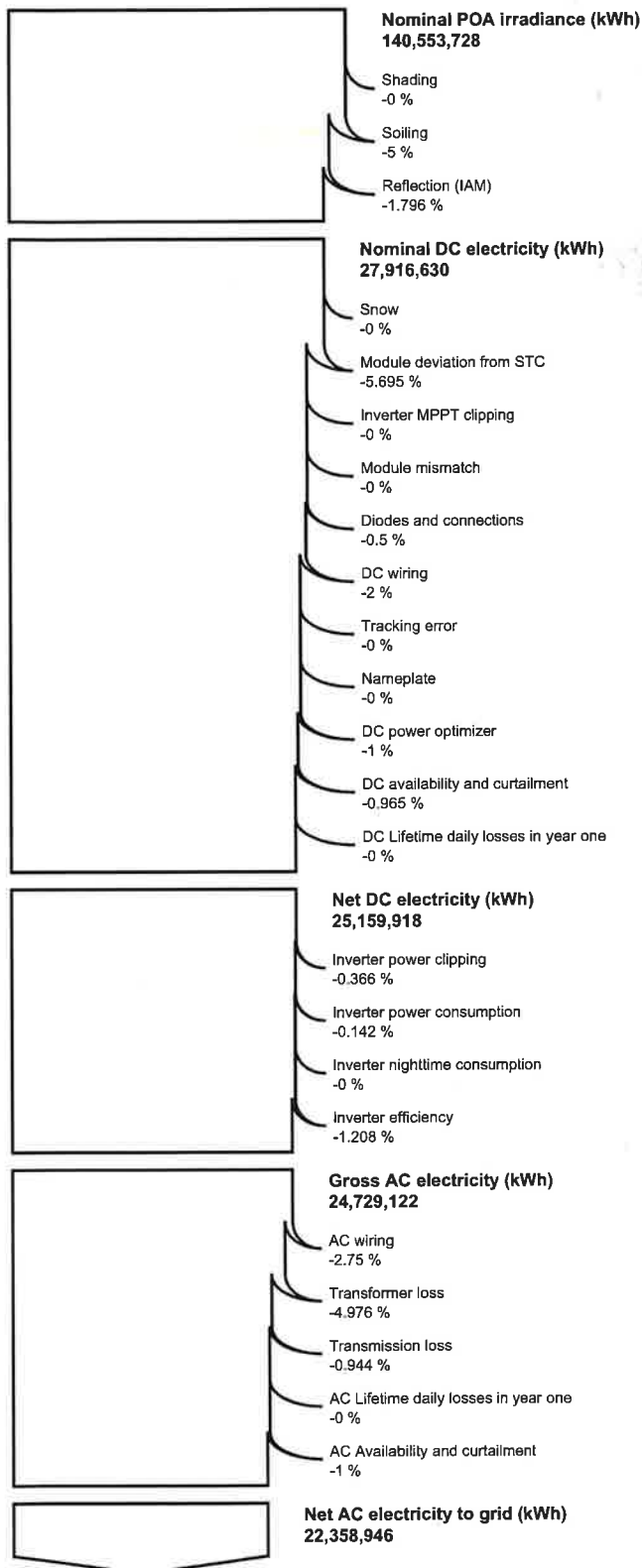
Payback Cash Flow (Payback Period = 14 years)



Detailed Photovoltaic
Commercial

15.6 DC MW Nameplate
\$2.53/W Installed Cost

30.53, -91.18
UTC -6



Attachment D: Roofing and Solar PV Minimum Equipment and Construction Requirements

A. General

- All power generation and transmission equipment must be UL listed for its designed use.
- There must be a minimum 25-year warranty for all AguaSeal roofing systems and solar modules.
- Respondent is responsible for conducting all required building, utility, and rebate inspections. Respondent must complete all construction and documentation in a manner necessary to pass such inspections, and the work must be conducted in accordance with industry standard best practices.
- Respondent must possess current state electric and solar contractor's license from the Louisiana Contractors Licensing Board to perform the work being proposed.
- Respondent must obtain stamped engineered drawings from a licensed electrical engineer for the solar installations. Furthermore, Respondent must obtain a letter from a structural engineer for each structure upon which solar will be installed demonstrating it is fit to accommodate the solar equipment.
- All work performed must be permitted and inspected by State and local authorities having jurisdiction.
- Solar installation must be interconnected with the local utility company and comply with all interconnection standards of the utility. All interconnection fees, studies and equipment upgrades will be the responsibility of the Respondent.
- Monitoring shall be established on solar equipment and SUBR must have access and permissions to display metrics of solar performance in any of its facilities.

B. Roofing System

Note: The Respondent is responsible for verifying the roof type, area, and condition of all roofs included in the project.

1. AguaSeal Monoseal Membrane system will be specified as the roofing system that includes a 25-year warranty on each building's roofing system. **No substitutions will be accepted.**
2. Roofing system should include monobase, aguaseal fabric, and monotop if necessary.

3. **Prior to the installation of solar racking and solar panels on the roof, a 25-year maintenance agreement will be established if the AguaSeal roofing system is applied. This agreement ensures the long-term performance and integrity of the roof under the solar array. In cases where the existing roof still carries a manufacturer's warranty, it is the responsibility of the roofing contractor to evaluate the current warranty status and explore options for a warranty reset. If a reset is not feasible, the contractor must provide a comprehensive plan to align the remaining or extended coverage with the 25-year term required for compatibility with the solar installation.**

C. Solar PV Modules

1. System modules shall be Tier 1 listed and CEC-listed.
2. System modules must have a 25-year warranty and degradation scale attached to RFP.
3. All warranties must be documented in advance and be fully transferable to SUBR.

D. Inverters

1. Inverters shall be UL1741 listed and must be CEC-listed with an efficiency of 95% or higher.
2. Inverters must be warrantied for total agreement term.
3. All warranties must be documented, in advance and be fully transferable to SUBR.

E. Balance of System Equipment

1. Each proposed PV system shall include, at a minimum, one fused DC disconnect and one fused AC disconnect for safety and maintenance concerns.
2. String combiner boxes must include properly-sized fusing, and all metal equipment and components must be bonded and grounded as required by NEC.
3. All system wiring and conduit must comply with applicable local code and NEC stipulations.
4. Wall penetrations must be sealed in compliance with NEC and National Fire Protection Association (NFPA) regulations.
5. All wiring materials and methods must adhere to industry-standard best practices.
6. Material requirements:
 - a. Fasteners and hardware throughout system shall be stainless steel or material of equivalent corrosion resistance.
 - b. Racking components shall be anodized aluminum, hot-dipped galvanized steel, or material of equivalent corrosion resistance.

- c. Unprotected steel not to be used in any components.

F. Interconnection

1. System interconnection must comply with NEC and Utility regulations and must be approved by Entergy, and if required, by the Louisiana Public Service Commission (PSC) before any PV system construction is begun.
2. Interconnection points will be at facility main switchgear locations.
3. Emergency back-up generation may exist on-site and must be factored into proposed PV system electrical plans.
4. All placards required by SUBR, Entergy, and the PSC must be provided and installed according to SUBR and NEC guidelines.

G. Monitoring and Reporting Systems

- System monitoring and reporting must comply with State solar program requirements and must be provided at no additional cost for a term of contract.
- Monitoring shall include revenue-grade metering of PV system production and building consumption, pyranometer, and ambient air temperature sensor.
- Proposals must include Internet hosting of monitoring with on-line access for SUBR personnel and touchscreen kiosk or video monitor for public display of data.
- Respondent must work with SUBR to determine best location and technique for monitoring communications interconnection.
- Respondent will be responsible for providing all required monitoring communications and power wiring and conduit, with SUBR guidance on approved locations.

H. System Design and Permitting

1. Within 30 days of the contract being signed, Respondent shall create a construction plan set which includes at a minimum:
 - a. Site overview
 - b. Detailed array layout with stringing configuration
 - c. Mounting and racking details
 - d. Details of electrical transmission showing conduit routing and location of electrical enclosures, conduit support details, and enclosure mounting details
 - e. Electrical single-line diagram
 - f. Electrical three-line diagram
 - g. Monitoring plan

h. Construction project plan with timeline

2. All proposed system designs and construction techniques must be approved by the SUBR and the State of Louisiana Office of Facility Planning & Control (FP&C) and the Department of Energy and Natural Resources (LDENR).
3. Respondent shall obtain structural PE stamp verifying the integrity of each building to handle additional weight load of proposed PV system.
4. Respondent shall obtain electrical PE stamp verifying the integrity and code compliance of proposed PV systems and interconnection with the building.
5. Roof-mounted array layouts shall be designed to provide minimum of three (3) feet of walking access around the perimeter of the roof and convenient access to existing roof-mounted HVAC equipment in addition to any applicable setbacks for access, safety and smoke ventilation as required.
6. Ground-penetrating array layouts shall adhere to all soil and geographical requirements and concerns in terms of ground penetration and trenching.
7. Final array layouts shall be designed to avoid shading from 9am to 3pm annually. If this shading requirement cannot be strictly met, Respondent shall specify the predicted solar availability and performance losses.
8. Wire loss in DC circuits to be < 1.5%.
9. Wire loss in AC circuits to be < 1.5%.

I. Construction

1. Respondent shall prepare, maintain, and abide by Site Safety Plan to include, at a minimum, all applicable Occupational Safety and Health Administration (OSHA) workplace safety and Personal Protective Equipment (PPE) requirements.
2. Construction work shall be designed to minimize impact to school operations. Respondent shall develop a construction plan for site access, staging, and equipment storage and obtain approval from the SUBR prior to beginning construction.
3. All asphalt, concrete, landscaping, and other areas that are disturbed during construction shall be remediated and returned to original condition, or equivalent condition as approved by SUBR.
4. After completion of work, site shall be left clean and free of any dirt or debris that may have accumulated during construction. All construction equipment, spoils, and other construction byproducts shall be removed from the site.
5. All electrical enclosures and equipment shall be installed to be readily accessible to qualified personnel only. Fences or other protection may be required per SUBR specifications.
6. All visible conduits and electrical equipment shall be painted or aesthetically

dressed per SUBR specifications.

7. Location of existing underground utilities must be marked by 811/Dig Alert or equivalent private service prior to any underground work.

J. Documentation and Process Control

In addition to construction requirements listed above, Respondent will be required to:

1. Apply for and receive interconnection approval from the local Utility for proposed PV systems.
2. Provide up to 25 years of system maintenance with annual reports of system performance and consistent oversight of system monitoring.
 - a. Respondent shall be required to respond to system downtime within 24 hours of first occurrence of incidence. If corrective action is not immediately feasible, Respondent shall notify SUBR of action plan and timeline for execution.
 - b. Respondent shall be required to respond to warranty related issues not affecting production within 72 hours of monitoring notification.
3. Provide As-Built drawings of the roofing and PV system, which must include finalized module layout and stringing chart.

Attachment E: Roofing Systems Specifications

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LIQUID-APPLIED ROOFING AND WATERPROOFING

SECTION 07560

LIQUID-APPLIED FABRIC-REINFORCED ROOFING AND WATERPROOFING (OVER EXISTING BUILT UP ROOFS with SOLAR)

PART 1 GENERAL

1.1 DESCRIPTION

This specification is designed specifically for the application of the MonoSeal Waterproofing System (Primers, MonoBase, AguaSeal Fabrics and MonoTop) as manufactured by AguaSeal Acquisition, LLC (AguaSeal) over the following existing roofing systems:

- a) BUR (Built Up Asphalt Roofs)

1.2 DESCRIPTION OF LIQUID-APPLIED ROOF SYSTEMS

The liquid-applied roofing system shall consist of a reinforced elastomeric system specifically designed for use on a roof. The system must have approval by FMRC (Factory Mutual Research Corporation) according to Standard 4470 for Class 1 Roof Constructions which includes- Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications.

1.3 SECTION INCLUDES

This specification incorporates the application of substrate suitable primers and the installation of the liquid-applied flexible acrylic waterproofing system over a range of existing roofing systems. This work shall include the preparation of the existing substrate, application of the primer(s), application of the new roofing and waterproofing system, the detail work flashing system, and final clean up.

1.4 RELATED WORK

The contractor shall review all sections of these specifications to determine items of work that will interface with the application of this roofing system. Coordination and execution of related sections shall be the responsibility of the contractor.

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LIQUID-APPLIED ROOFING AND WATERPROOFING

1.5 REFERENCES

1. ASTM B117 - Test Method of Salt Spray (Fog) Testing.
2. ASTM G-29 - Test Methods for Algae Resistance.
3. ASTM E-108 - Test Method for Fire Test of Roof Coverings.
4. ASTM D-1653 - Water Vapor Transmission of Materials.
5. ASTM G26 - Practice for Operating Light- and Water-Exposure Apparatus for exposure of Nonmetallic Materials.
6. ASTM D-412 - Ultimate Tensile Strength at Break.
7. ASTM D-6083 - Standard Specification for Liquid Applied Acrylic Coatings used in roofing.
8. ASTM C1549 - Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer
9. ASTM C1371 - Standard test method for determination of emittance of materials near room temperature using portable emissometers
10. FM 4470 - Standard for Class 1 Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications

1.6 SUBMITTALS

1. Shop Drawings: Submit drawings showing the layout of joint reinforcing and all flashing details, including edges, closures, penetrations, etc.
2. Product Data: Provide AguaSeal technical data for each of the products that comprise the whole roofing and waterproofing system.
3. Manufacturer's Installation Instructions: Provide technical data and application instruction sheets from AguaSeal for the total scope of work regarding the specific project.
4. Verify field measurements and submit materials list, including quantities, to be applied to achieve specified membrane thickness.
5. Manufacturer's Certificate: Provide Certification that each of the products to be utilized meet or exceed specified requirements.

1.7 QUALIFICATIONS

1. Applicator Qualifications: AguaSeal shall have sole discretion, including the right of refusal to disqualify, regarding the qualifications of the proposed applicator of any AguaSeal products specified for the project. Minimum

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LIQUID-APPLIED ROOFING AND WATERPROOFING

requirements for approval of Applicators for the specified project are 3 years known and documented history of successful application of liquid-applied waterproofing systems.

2. Approved Applicators will also have necessary and documented experience in the application of liquid-applied waterproofing systems on roofs of a similar size and scale as specified for this project.
3. Proof of this qualification shall be provided, if and as necessary, in written form by AguaSeal.

1.8 QUALITY CONTROL

1. Codes and Standards: The contractor shall be required to be familiar and acquainted with the building codes, regulations, and standards governing the specified project.
 - a) There shall be no variation from these specifications unless said variation is submitted in writing and approved by the specification author and AguaSeal and/or its Technical Sales Representative (TSR).
 - b) An Approved Applicator (as designated by AguaSeal) shall be on site during all applications of any AguaSeal products.
2. Manufacturer's Technical Sales Representative (TSR): AguaSeal TSR shall be on site at regular intervals, spread no more than 7-10 business days apart, during the application process. At the Building Owner' specific request, the TSR shall, following each site visit, provide a written inspection report. To be in compliance with Warranty requirements, the TSR is required by AguaSeal to approve the application process at the following specific stages:
 - a) Prior to the commencement of the work to evaluate and advise, regarding specific elements of the project that may require additional scope of work over and above standard installation procedures,
 - b) At initial application of any AguaSeal primer(s), and commencement of the MonoBase and fabric scope of work,
 - c) To comply with AguaSeal warranty requirements, inspections at 7 to10 day intervals during the MonoBase and fabric scope of the work,
 - d) During and after the MonoTop scope of work and upon completion of the project and prior to any issuance of warranty.

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LIQUID-APPLIED ROOFING AND WATERPROOFING

3. The application of this coating system must be in accordance with AguaSeal's application rate for required dry film thickness, published application instructions and Material Safety Data Sheets.
4. The specified roofing system must be installed by AguaSeal authorized roofing applicator in compliance with drawings and specifications as provided by AguaSeal.
5. There must be no deviations made from AguaSeal's specification or AguaSeal's approved shop drawings without the PRIOR WRITTEN APPROVAL of AguaSeal.
6. The solar reflectance of this roofing product may decrease over time due to environmental defacement such as dirt, biological growth, ponded water, etc. The roof should be monitored at regular intervals and maintained or cleaned when necessary to assure the maximum solar reflectance.

1.9 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
 1. Name of manufacturer
 2. Name of contents and products code
 3. Net volume of contents
 4. Lot or batch number
 5. Storage temperature limits
 6. Shelf-life expiration date
 7. Mixing instructions and proportions of content
 8. Safety information and instructions
2. Store materials in accordance with AguaSeal instructions.
It is essential that product be protected from the elements to preserve its integrity. Contact the AguaSeal Technical Sales Representative for guidance.
3. Store materials at temperatures between 40 - 90 degrees F (4 - 32 degrees C). Keep out of direct sunlight.
4. Support stored material containers on pallets or otherwise off potentially wet ground as necessary.
5. Handle materials in accordance with manufacturer's recommendations.

1.10 ENVIRONMENTAL REQUIREMENTS

The MonoSeal System should only be applied if no rain is expected before the application has had time to dry and if ambient temperatures are 40F (4.5C) or above.

1.11 WARRANTY

MonoTop finish coating will be applied over a MonoBase and Fabric foundation to build millage to Warranty requirements.

The application rates vary with the warranty selected. The total system dry thickness will also vary based on the MonoBase coating used and the warranty selected. See section 3.3 for application and minimum dry thickness amounts.

In all options the following are requirements for obtaining an AguaSeal Warranty.

1. Provide applicable timeframe AguaSeal material only or labor and material warranty (see Application, below).
2. The Contractor shall be responsible for an initial three years of labor warranty with AguaSeal being responsible for material only or both labor and material, subject to the specific agreement, from year four forward.
3. Manufacturer is responsible for the labor portion of the warranty from year four forward.
4. To qualify for any Agua-Seal Waterproofing Systems Warranty the system must comply to the following minimum dry film thickness;

MonoSeal System - 25 Year 52 mils dry minimum.

1.12 PROJECT CONDITIONS

- A. Acceptable Substrates: Acceptable substrates for the MonoSeal System shall be any of the following: Smooth Built Asphalt Built-Up Roofs or Substrates approved by AguaSeal.

Gravel Built-Up Roofs: The roof must be spudded and all loose gravel removed. Please contact AguaSeal Technical Services for additional information.

- B. GC should conduct a roof scan on flat and low slope roofs of all types prior to commencement of any AguaSeal work, in order to comply with AguaSeal Warranty requirements.
- C. Substrate: After existing roofing systems are cleaned and repaired by the

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system installer, as required, but prior to starting the membrane system installation work, complete all substrate corrective actions required, including but not limited to; removal and replacement of deteriorated flashing, roof decking, removal and replacement of wet insulation. Substrate shall be smooth, dry, and free of debris.

PART 2 PRODUCTS

2.1 MANUFACTURER

1. AguaSeal Acquisition, LLC
7269 Cross Park Drive, North Charleston, SC 29418
Phone: (843) 614 9663 www.aguaseal.com

2.2 MEMBRANE COMPOUND MATERIAL

2. Waterproofing Material:
 - a) MonoSeal System, namely a water-based, fabric reinforced, highly flexible acrylic coating system which is liquid-applied in three successive stages, creating one continuous and seamless watertight membrane, with a 40-mil minimum, dry, cured total system thickness;

1.1 The MonoSeal System is comprised of:

- I. Appropriate Primers
- II. MonoBase: a blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings.
- III. Fabric: AguaSeal non-woven polyester, stitch-bonded, heat-set fabric.
- IV. MonoTop: an ultra-violet light resistant blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings

Reinforcing Fabric: This material shall be non-woven 100% polyester, stitch bonded, heat-set fabric, as specified by the Architect/Engineer;

- a) 272: Weight: Minimum (2.73oz), Target (3.04oz), Maximum (3.34oz)
- b) 272: Tensile Strength: MD: 67 lbs., CD: 59 lbs. per ASTM D5034
- b) 272: Elongation @ Break: MD: 25%, CD: 79% per ASTM D5034

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- c) 272: Ball Burst: 109 lbs. per ASTM D3787
- d) 272: Trapezoid: MD: 22 lbs., CD: 21 lbs. per ASTM D5587
- e) 272: Thickness: 0.018 inches per ASTM D1777

2.3 CURED MEMBRANE CHARACTERISTICS

PROPERTY	TEST	RESULT
Elongation	ASTM-D638	> 300% Elastomeric
	ASTM-D2370	> 220% @ Break
Tensile Strength (cured)	ASTM-D412	> 2000 PSI (12,789 kPa)
	ASTM-D2370	> 210 PSI
Density		12.1 lb./gal
Volume Solids	ASTM-D2697	> or = 50%
Weight Solids	ASTM-D1644	> or = 65%
Viscosity	ASTM D562	129 Krebs @ 77°F
Algae Resistance	ASTM-G29	No Growth Supported
Moisture Vapor	ASTM-D1653	3 perms
Tear Resistant	ASTM-624	81 (Lbf/in)
Fire Rating	ASTM-E108	Class A
VOC (calculated)		< 72 g/L
Susceptibility to Leakage	FM-4470	
Windstorm Pressure	FM-4470	
Severe Hail Test	FM-4470	No Separation or Rupture 1 SH
Resistance to Foot Traffic	FM-4470	No Sign of Tearing or Cracking
Liquid Applied Acrylic	ASTM-D6083	Approved
Weathering	ASTM-G26	No effect after 3,000 hours
Salt Spray Test	ASTM-B117	No effect
Fire Rating	ASTM-E108	Class A
Low Temperature Flexibility (-15°F)	ASTM-D522	Pass
Liquid Applied Acrylic	ASTM-D6083	Approved
Solar Reflectance	ASTM-C1549	> or = 0.79
Thermal Emittance	ASTM-C1371	> or = 0.90

2.4 ACCESSORIES

A. Cant Strips: AguaSeal approved cant strip systems are EPS (Expanded Polystyrene), ISO (Polyisocyanurate) and non-pressure treated lumber. Cant strips should be installed at internal corners, around curbs, and at any 90-degree angles, all as recommended by the Technical Sales Representative.

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- 2.5 **Moisture Breathers/One Way Vents:** Moisture breathers, otherwise known as 'One Way Vents' shall be installed on every roofing remediation project as recommended by the Technical Sales Representatives.
- 2.6 **Retrofit Internal Drains:** Optional unless specified by AguaSeal Technical Representative. Retrofit roof drains are designed to replace existing drains in reroofing applications. Installed from the roof surface, retrofit drains are engineered to be installed without removing the existing plumbing or fixture while providing a watertight connection to the roof system and the existing plumbing.
- 2.7 **AguaBase Below Grade (BG):** AguaBase BG may be made into a trowel grade acrylic, cementitious, moderately flexible and elastomeric bulking material by increasing the Portland #1 Cement or sand in the AguaBase BG mix process. It is used in conjunction with AguaBase BG or MonoBase to fill cracks, voids, or low depressions on various substrates, to repair existing delaminated roofing and to provide a harder, more durable and ponding water tolerant surface around roof drains and scuppers.
- 2.8 **PanelSeal Metal Primer:** Water based primer used to encapsulate existing rust, stabilize and protect metal surfaces.
- 2.9 **AguaGrip:** AguaGrip is a low viscosity primer adhesive providing excellent adhesion to virtually all roof substrates. It can be used to seal chalky residue substrates, to re-adhere loose granules on a cap sheet, to encapsulate difficult to remove dust and dirt. AguaGrip makes an excellent bleed-blocker and aid system for leveling surfaces such as old built-up, granulated modified bitumen and other, ballasted roofing substrates, making them ready for application of any of the MonoSeal System. In addition to the above-mentioned substrates, AguaGrip can be used effectively to seal virtually all surfaces, including asphalt, concrete, asbestos, cement roofing, plastisol coated metal and other pre-coated surfaces.
- 2.10 **AguaPath:** a hardwearing, flexible and durable water-based, coating for protection of walkways and pedestrian areas on various roofing substrates. Contact the AguaSeal TSR for suitability of purpose subject to substrate.

PART 3 EXECUTION

3.1 EXAMINATION

1. Ensure the substrate surfaces are clean and dry, free of loose particles, cracks,

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pits, projections, or otherwise anything that may prevent adhesion or the successful application of the waterproofing system.

2. Ensure any penetrations through the substrate to be treated are securely installed.
3. Ensure that substrate areas are adequately supported and firmly fastened in place.
4. Ensure the roof substrate has a minimum slope of 0.25" per foot.
5. Ensure the roof substrate is free of any ponding water depressions. In the case of such depressions AguaBase BG Trowel Grade may be used to level out the substrate. Allow to dry before any further product application. In the case of larger areas of ponding water probability, AguaBase BG, Fabric, AguaBase BG, and another coat of AguaBase BG should be applied over the MonoBase application in that specific area.
6. Ensure all attached parapet/vertical walls are properly treated with the MonoSeal System.

3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.
2. Remove lightning protection.
3. Clean and prepare surfaces to receive waterproofing treatment by removing all loose and flaking particles, grease and any growing organic materials by power wash (3000 psi) and a stiff bristle push broom. Extreme care should be taken not to inject water into the substrate during washing. In some cases, additional drying time may be required after the cleaning process. Please consult your AguaSeal Technical Sales Representative for additional advice on cleaning various roofing substrates.
4. Following power washing, ensure that any remaining loosely adhering residue of previous coatings is removed to facilitate good adhesion.
5. Make any repairs required to the existing substrate. In areas where the existing roofing system is not fully adhered:
 - a) Remove any non-adhering roofing.
 - b) Where necessary install deemed approved recovery board to bring the repair area level with the existing roofing.
 - c) Prime the repair area with a thin coat of AguaGrip, MonoBase, AguaBase BG slurry or MonoBase Butter Grade as recommended by the TSR.

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- d) Apply MonoBase, AguaBase BG, or AguaBase Trowel Grade to the repair area as recommended by the TSR.
- 6. Do not apply any AquaSeal treatment to any surfaces deemed unacceptable to the TSR.
- 7. Where applicable- apply PanelSeal Metal Primer to opacity (approximately 200 square feet per gallon) to any/all metal areas designated to receive waterproofing treatment.

3.3 APPLICATION

- 3.3.1 Surface Primers - As necessary, apply one of the following primers at the proper coverage rates. Contact AquaSeal TSR to verify if a primer is required.

AguaGrip - Apply AguaGrip at a minimum of 140 square feet per gallon.

PanelSeal Metal Primer- Apply Panel Seal Metal Primer to opacity (approximately 200 square feet per gallon to any/all metal areas designated to receive waterproofing treatment.

AguaBase BG – Apply AguaBase BG slurry, mixed with Portland #1 Cement powder to a consistency suitable for purpose, to heavily alligatored modified bitumen substrate to smooth the surface and prepare it for further application of MonoSeal system with fabric.

3.3.2. MonoBase Application

A. MonoBase Minimum Requirements

- 1. To attain warranty standard coverage, apply MonoBase at a minimum coverage rate of 2.5 gallons per 100 square feet (averaging 1.5 gallons per 100 square feet below the fabric and 1.00 gallons per 100 square feet on top of the fabric. This provides a combined total dry thickness including fabric of 24-26mls.

Note: an 'alligatored' surface substrate may require additional MonoBase.

3.3.3 MonoBase Application with Fabric

- a. Apply project-specific size AquaSeal fabric, laid into the wet MonoBase coating and immediately saturate the top of the fabric with

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an additional coat of MonoBase. Care should be given to ensure that adjacent runs of fabric are overlapped a minimum of 4 inches.

MonoBase coats should only be applied with the use of approved roof brushes. Rolling and spraying of the Base coats are not permitted and will nullify the issue of an AguaSeal warranty.

- b. Roof Perimeter - Using MonoBase and project specific sized AguaSeal fabric (12") waterproof the entire roof perimeter. Continue the treatment up vertical surfaces and onto deck a minimum of 6 inches in each direction.
- c. Roof Penetrations - Using MonoBase and project specific sized fabric seal around the base of the penetration, extending at least 6 inches onto the vertical and 6 inches onto the base ensuring watertight integrity. Cut flashing to accommodate the shape of the penetration. Both the top and bottom of neoprene pipe boots shall be flashed in similar fashion.
- d. Roof Drains - Remove drain rings and using MonoBase and project specific sized fabric and the seal the roof drains, extending into the bowl of the drain.

AguaSeal recommends modifying the existing internal drain with the addition of a retrofit drain assembly. Should retrofit drains be installed, the process should take place prior after the roof is cleaned and before the MonoBase system is applied.

- e. Scuppers - Using MonoBase and project specific sized AguaSeal fabric, waterproof and seal scuppers by extending the chosen system beyond the existing roofing system into and through the scupper.
- f. Wall flashings and Coping caps - using MonoBase and project specific size fabric seal any seams and fasteners penetrating through wall flashings and coping caps.
- g. Gutters (when applicable): Trowel or brush apply suitable AguaSeal sealant (in accordance with the AguaSeal TSR recommendation) to the interior or exterior gutter. Gutter shall be completely clean and dry before application.
- h. Skylights: Curb skylights shall be treated in the same fashion as curb flashings. The entire perimeter shall be flashed with Base and a minimum 6 inches width of AguaSeal fabric. All exposed skylight fasteners shall be encapsulated with Base and

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AguaCaps as necessary.

- i. Field of Roof – using Base and 40" AguaSeal fabric, seal the entire field of the roof. Overlap adjacent runs of fabric by a minimum 4".

3.3.4 MonoTop Application

25-year Warranty Requirements: Brush, spray or roller apply MonoTop at a coverage rate of 3 gallons per 100 square feet.

Total system dry thickness = 52 mils minimum.

PROTECTION OF FINISHED WORK

- 3.3.5 Monitor the finished system for 7 days, sweeping any ponding water from the roof surface off allow for full cure.
- 3.3.6 Verify final film thickness as specified. If specified dry film thickness has not been achieved, application of additional coating will be required.
- 3.3.7 Visually inspect critical areas of the roof including roof seams and penetrations and touch up with additional MonoSeal coatings to insure complete and adequate coverage.
- 3.3.8 Protect completed membrane from damage by work of other trades. Schedule sequence of work so that traffic over new membrane is minimized. Institute required procedures for protection of completed membrane during installation of work from other trades throughout remainder of construction period. Do not allow traffic of any type on unprotected membrane.
- 3.3.9 At completion of construction activities of other trades, touch-up and restore damaged or defaced coated surfaces, if and where needed. Correct damage by cleaning, repairing, replacing, and/or recoating to make acceptable to the specifier and/or AguaSeal. Leave in an undamaged condition.

3.4 INSPECTION INFORMATION

Inspect Preliminary Work / Flashing Details for problem areas (e.g., gaps, cracks, fish mouths, air pockets, etc.) to ensure that work is complete and satisfactory.

PART IV ANNUAL MAINTENANCE PROGRAM

The following are the recommendations for maintaining an AguaSeal MonoSeal Roof System. If you have any questions please contact our corporate office at 843-614-9663 or your Technical Sales Representative.

- 3.4.4 AguaSeal recommends that the roof area be inspected at least once per quarter
- 3.4.5 During the annual maintenance program, remove all debris from the roof surface, including any vegetation, dirt, loose nails and screws, unused equipment, etc.
- 3.4.6 Inspect the entire roof surface for any ponding water areas. If ponding is occurring then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator to remove and correct the problem area.
- 3.4.7 Inspect the roof surface for any punctures, especially around exhaust vents and HVAC units. Should any punctures be found, then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator for repair work.
- 3.4.8 Keep all gutters free of debris. Make sure that the downspouts are draining properly by water testing them.
- 3.4.9 Trim back any overhanging tree branches.
- 3.4.10 Check all caulking and sealants on flashings and copings. Scrape and remove any caulking that is weather cracked and damaged. Clean the area thoroughly using a wire brush if necessary. Reapply polyurethane caulking such Vulkem, NP-1, or equivalent.
- 3.4.11 Check the mortar on chimneys and parapet walls, both in between the brick and on top. If it is damaged or deteriorating, have it tuck-pointed. Any mason can perform this work.
- 3.4.12 An AguaSeal roof should be cleaned at least once a year (not required) to remove surface debris build-up for improved reflectivity and cool roof benefits. Use a soft bristle wash brush and a mild detergent to remove build-up. Rinse thoroughly to remove detergents. DO NOT POWERWASH.

END

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LIQUID-APPLIED ROOFING AND WATERPROOFING

SECTION 07560

LIQUID-APPLIED FABRIC REINFORCED ROOFING AND WATERPROOFING (OVER EXISTING METAL COMMERCIAL STANDING SEAM ROOFS) SOLAR APPLICATION

PART 1 GENERAL

1.1 DESCRIPTION

This specification is designed specifically for the application of the MonoSeal Waterproofing System (Primers, MonoBase, AguaSeal Fabrics, and MonoTop) over the following existing roofing systems:

- a) Commercial Standing Seam Metal Panels

1.2 DESCRIPTION OF LIQUID-APPLIED ROOF SYSTEMS

The liquid-applied roofing system shall consist of a reinforced elastomeric system specifically designed for use on a roof. The system must have approval by FMRC (Factory Mutual Research Corporation) according to Standard 4470 for Class 1 Roof Constructions which includes- Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications.

1.3 SECTION INCLUDES

This specification incorporates the application of substrate suitable primers and the installation of the liquid-applied flexible acrylic waterproofing system over a range of existing roofing systems. This work shall include the preparation of the existing substrate, application of the primer(s), application of the new roofing and waterproofing system, the detail work flashing system, and final clean-up.

1.4 RELATED WORK

The contractor shall review all sections of these specifications to determine items of work that will interface with the application of this roofing system. Coordination and execution of related sections shall be the responsibility of the contractor.

1.5 REFERENCES

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1. ASTM B117 - Test Method of Salt Spray (Fog) Testing.
2. ASTM G-29 - Test Methods for Algae Resistance.
3. ASTM E-108 - Test Method for Fire Test of Roof Coverings.
4. ASTM D-1653 - Water Vapor Transmission of Materials.
5. ASTM G26 - Practice for Operating Light- and Water-Exposure Apparatus for exposure of Nonmetallic Materials.
6. ASTM D-412 - Ultimate Tensile Strength at Break.
7. ASTM D-6083 - Standard Specification for Liquid Applied Acrylic Coatings used in roofing.
8. ASTM C1549 - Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer
9. ASTM C1371 - Standard test method for determination of emittance of materials near room temperature using portable emissometers
10. FM 4470 - Standard for Class 1 Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications

1.6 SUBMITTALS

1. Shop Drawings: Submit drawings showing the layout of joint reinforcing and all flashing details, including edges, closures, penetrations, etc.
2. Product Data: Provide AguaSeal Acquisition, LLC (AguaSeal) technical data for each of the products that comprise the whole roofing and waterproofing system.
3. Manufacturer's Installation Instructions: Provide technical data and application instruction sheets from AguaSeal for the total scope of work regarding the specific project.
4. Verify field measurements and submit materials list, including quantities, to be applied to achieve specified membrane thickness.
5. Manufacturer's Certificate: Provide Certification that each of the products to be utilized meets or exceed specified requirements.

1.7 QUALIFICATIONS

1. Applicator Qualifications: AguaSeal shall have sole discretion, including the right of refusal to disqualify, regarding the qualifications of the proposed applicator of any AguaSeal products specified for the project. Minimum

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requirements for approval of Applicators for the specified project are 3 years of known and documented history of successful application of liquid-applied waterproofing systems.

2. Approved Applicators will also have necessary and documented experience in the application of liquid-applied waterproofing systems on roofs of a similar size and scale as specified for this project.
3. Proof of this qualification shall be provided, if and as necessary, in written form by AguaSeal.

1.8 QUALITY CONTROL

1. Codes and Standards: The contractor shall be required to be familiar and acquainted with the building codes, regulations, and standards governing the specified project.
 - a) There shall be no variation from these specifications unless said variation is submitted in writing and approved by the specification author and AguaSeal and/or its Technical Sales Representative (TSR).
 - b) An Approved Applicator (as designated by AguaSeal) shall be on-site during all applications of any AguaSeal products.
2. Manufacturer's Technical Sales Representative (TSR): AguaSeal TSR shall be on-site at regular intervals, spread no more than 7-10 business days apart, during the application process. At the Building Owner's specific request, the TSR shall, following each site visit, provide a written inspection report. To be in compliance with Warranty requirements, the TSR is required by AguaSeal to approve the application process at the following specific stages:
 - a) Prior to the commencement of the work to evaluate and advise, regarding specific elements of the project that may require an additional scope of work over and above standard installation procedures,
 - b) At initial application of any AguaSeal primer(s), and commencement of the MonoBase and fabric scope of work,
 - c) To comply with AguaSeal warranty requirements, inspections at 7 to 10 day intervals during the MonoBase and fabric scope of the work,
 - d) During and after the MonoTop scope of work and upon completion of the project and prior to any issuance of the warranty.

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LIQUID-APPLIED ROOFING AND WATERPROOFING

3. The application of this coating system must be in accordance with AguaSeal application rate for required dry film thickness, published application instructions, and Material Safety Data Sheets.
4. The specified roofing system must be installed by AguaSeal authorized roofing applicator in compliance with drawings and specifications as provided by AguaSeal.
5. There must be no deviations made from the AguaSeal specification or AguaSeal's approved shop drawings without the PRIOR WRITTEN APPROVAL of an officer of AguaSeal Acquisition, LLC.
6. The solar reflectance of this roofing product may decrease over time due to environmental defacement such as dirt, biological growth, ponded water, etc. The roof should be monitored at regular intervals and maintained or cleaned when necessary to assure maximum solar reflectance.

1.9 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
 1. Name of manufacturer
 2. Name of contents and products code
 3. Net volume of contents
 4. Lot or batch number
 5. Storage temperature limits
 6. Shelf-life expiration date
 7. Mixing instructions and proportions of content
 8. Safety information and instructions
2. Store materials in accordance with AguaSeal instructions.
It is essential that the product be protected from the elements to preserve its integrity. Contact the AguaSeal Technical Sales Representative for guidance.
3. Store materials at temperatures between 40 - 90 degrees F (4 - 32 degrees C). Keep out of direct sunlight.
4. Support stored material containers on pallets or otherwise off the potentially wet ground as necessary.
5. Handle materials in accordance with the manufacturer's recommendations.

1.10 ENVIRONMENTAL REQUIREMENTS

The MonoSeal System should only be applied if no rain is expected before the application has had time to dry and if ambient temperatures are 40F (4.5C) or above.

1.11 WARRANTY

MonoTop finish coating will be applied over a MonoBase and fabric foundation to build millage to warranty requirements.

The application rates vary with the warranty selected. The total system dry thickness will also vary based on the MonoBase coating used and the warranty selected. See section 3.3 for application and minimum dry thickness amounts.

In all options, the following are requirements for obtaining an AguaSeal Warranty.

1. Provide applicable timeframe AguaSeal material only or labor and material warranty (see Application, below).
2. The Contractor shall be responsible for an initial three years of labor warranty with AguaSeal being responsible for material only or both labor and material, subject to the specific agreement, from year four forward.
3. Manufacturer is responsible for the labor portion of the warranty from year four forward.
4. To qualify for any Agua-Seal Warranty, the system must comply with the following minimum dry film thickness where reinforcing fabric is used;

MonoSeal System -		
(reinforced Areas)	25 Year	52 mils dry minimum.

MonoSeal System -		
(Not reinforced)	25 Year	26 mils dry minimum

25-year Leak Free Warranties may require that the first two coats of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 2 x coat Light Gray/Tan/Cotton followed by 2 coats of White or other final color selection.

1.12 PROJECT CONDITIONS

- A. Acceptable Substrates: Acceptable substrates for the MonoSeal System shall be any of the following: Commercial Standing Seam or similar metal panel

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roofs.

- B. GC should conduct a roof scan on flat and low slope roofs of all types prior to commencement of any AguaSeal work, in order to comply with AguaSeal requirements.
- C. Substrate: After existing roofing systems are cleaned and repaired by the system installer, as required, but prior to starting the membrane system installation work, complete all substrate corrective actions required, including but not limited to; removal and replacement of deteriorated flashing, roof decking, removal and replacement of wet insulation. The substrate shall be smooth, dry, and free of debris.

PART 2 PRODUCTS

2.1 MANUFACTURER

- 1. AguaSeal Acquisitions, LLC
7269 Cross Park Dr., North Charleston, SC 29418
Phone: (843) 614 9663 www.aguaseal.com

2.2 MEMBRANE COMPOUND MATERIAL

2. Waterproofing Material:

- a) MonoSeal System, namely a water-based, fabric-reinforced, highly flexible acrylic coating system which is liquid-applied in three successive stages, creating one continuous and seamless watertight membrane, with a 40-mil minimum, dry, cured total system thickness;

1.1 The MonoSeal System is comprised of:

- I. Appropriate Primers
- II. MonoBase: a blend of highly flexible, water-based, 100% pure, acrylic polymer, resin coatings.
- III. Fabric: AguaSeal non-woven polyester, stitch-bonded, heat-set fabric.
- IV. MonoTop: an ultra-violet light resistant blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings

Reinforcing Fabric: This material shall be non-woven 100% polyester,

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stitch-bonded, heat-set fabric, as specified by the Architect/Engineer;

- a) 272: Weight: Minimum (2.73oz), Target (3.04oz), Maximum (3.34oz)
- b) 272: Tensile Strength: MD: 67 lbs., CD: 59 lbs. per ASTM D5034
- b) 272: Elongation @ Break: MD: 25%, CD: 79% per ASTM D5034
- c) 272: Ball Burst: 109 lbs. per ASTM D3787
- d) 272: Trapezoid: MD: 22 lbs., CD: 21 lbs. per ASTM D5587
- e) 272: Thickness: 0.018 inches per ASTM D1777

2.3 CURED CHARACTERISTICS

PROPERTY	TEST	RESULT
Elongation	ASTM-D638	>300% Elastomeric
	ASTM-D2370	>220% @ Break
Tensile Strength (cured)	ASTM-D412	>2000 PSI (12,789 kPa)
	ASTM-D2370	>210 PSI
Density		12.1 lb./gal
Volume Solids	ASTM-D2697	> or = 50%
Weight Solids	ASTM-D1644	> or = 65%
Viscosity	ASTM D562	129 Krebs @ 77°F
Algae Resistance	ASTM-G29	No Growth Supported
Moisture Vapor	ASTM-D1653	3 perms
Tear Resistant	ASTM-624	81 (Lbf/in)
Fire Rating	ASTM-E108	Class A
VOC (calculated)		< 72 g/L
Susceptibility to Leakage	FM-4470	
Windstorm Pressure	FM-4470	
Severe Hail Test	FM-4470	No Separation or Rupture 1 SH
Resistance to Foot Traffic	FM-4470	No Sign of Tearing or Cracking
Liquid Applied Acrylic	ASTM-D6083	Approved
Weathering	ASTM-G26	No effect after 3,000 hours
Salt Spray Test	ASTM-B117	No effect
Fire Rating	ASTM-E108	Class A
Low Temperature Flexibility (-15°F)	ASTM-D522	Pass
Liquid Applied Acrylic	ASTM-D6083	Approved
Solar Reflectance	ASTM-C1549	> or = 0.79
Thermal Emittance	ASTM-C1371	> or = 0.90

2.4 ACCESSORIES

- A. Cant Strips:** AguaSeal-approved cant strip systems are EPS (Expanded Polystyrene), ISO (Polyisocyanurate), and non-pressure treated lumber. Cant strips should be installed at internal corners, around curbs, and at any 90-degree angles, all as recommended by the Technical Sales Representative.
- 2.6 Retrofit Internal Drains:** Optional unless specified by AguaSeal Technical Representative. Retrofit roof drains are designed to replace existing drains in reroofing applications. Installed from the roof surface, retrofit drains are engineered to be installed without removing the existing plumbing or fixture while providing a watertight connection to the roof system and the existing plumbing.
- 2.7 AguaBase Below Grade (BG):** AguaBase BG may be made into a trowel grade acrylic, cementitious, moderately flexible, and elastomeric bulking material by increasing the Portland #1 Cement or sand in the AguaBase BG mix process. It is used in conjunction with AguaBase BG or MonoBase to fill cracks, voids, or low depressions on various substrates, repair existing delaminated roofing, and provide a harder, more durable, and ponding water tolerant surface around roof drains and scuppers.
- 2.8 PanelSeal Metal Primer:** Water-based primer used to encapsulate existing rust, stabilize and protect metal surfaces.
- 2.9 AguaGrip:** AguaGrip is a low viscosity primer adhesive providing excellent adhesion to virtually all roof substrates. It can be used to seal chalky residue substrates, re-adhere loose granules on a cap sheet, to encapsulate difficult-to-remove dust and dirt. AguaGrip makes an excellent bleed-blocker and aid system for leveling surfaces such as old built-up, granulated modified bitumen, and other, ballasted roofing substrates, making them ready for application of any of the MonoSeal System. In addition to the above-mentioned substrates, AguaGrip can be used effectively to seal virtually all surfaces, including asphalt, concrete, asbestos, cement roofing, plastisol-coated metal, and other pre-coated surfaces.
- 2.10 AguaPath:** a hardwearing, flexible, and durable water-based, coating for the protection of walkways and pedestrian areas on various roofing substrates. Contact the AguaSeal TSR for suitability of purpose subject to the substrate.
- 2.11 299SRW Roof Wash:** Used for roofs that have previously been coated with aluminum coating. This product is used to remove the aluminum coating from the existing roof allowing the MonoSeal System to adhere properly. Product is diluted on the jobsite with 2 parts water and applied prior to pressure washing. Ensure that the treated area remains wet with the 299SRW for a minimum of 15 minutes before pressure washing begins.

PART 3 EXECUTION

3.1 EXAMINATION

1. Ensure the substrate surfaces are clean and dry, free of loose particles, cracks, pits, projections, or otherwise anything that may prevent adhesion or the successful application of the waterproofing system.
2. Ensure any penetrations through the substrate to be treated are securely installed.
3. Ensure that substrate areas are adequately supported and firmly fastened in place.
4. Ensure the roof substrate has a minimum slope of 0.25" per foot.
5. Ensure the roof substrate is free of any ponding water depressions. In the case of such depressions, AguaBase BG Trowel Grade may be used to level out the substrate. Allow to dry before any further product application. In the case of larger areas of ponding water probability, AguaBase BG, Fabric, AguaBase BG, and another coat of AguaBase BG should be applied over the MonoBase application in that specific area.
6. Ensure all attached parapet/vertical walls are properly treated with the MonoSeal System.

3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.
2. Remove lightning protection.
3. Roofs with Aluminum Coating- Apply 299SRW Roof Wash at a dilution rate of 1 part product to two parts water. Ensure that the applied cleaner remains wet for a minimum of 15 minutes prior to pressure washing.
4. Clean and prepare surfaces to receive waterproofing treatment by removing all loose and flaking particles, grease and any growing organic materials by power wash (3000 psi) and a stiff bristle push broom. Extreme care should be taken not to inject water into the substrate during washing. In some cases, additional drying time may be required after the cleaning process. Please consult your AguaSeal Technical Sales Representative for additional advice on cleaning various roofing substrates.

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5. Following power washing, ensure that any remaining loosely adhering residue of previous coatings is removed to facilitate good adhesion.
6. Make any repairs required to the existing substrate. In areas where the existing roofing system is not fully adhered:
 - a) Remove any non-adhering roofing.
 - b) Tighten all existing loose fasteners or replace them with “oversized” roofing fasteners. Replace all missing fasteners.
7. Do not apply any AguaSeal treatment to any surfaces deemed unacceptable to the TSR.

3.3 APPLICATION

- 3.3.1 Surface Primers - As necessary, apply one of the following primers at the proper coverage rates. Contact AguaSeal TSR to verify if a primer is required

AguaGrip - Apply AguaGrip at a minimum of 140 square feet per gallon.

PanelSeal Metal Primer- Apply Panel Seal Metal Primer to opacity (approximately 200 square feet per gallon to any/all rusted metal areas designated to receive waterproofing treatment.

3.3.2 MonoBase Application with Fabric

- a. Apply project-specific size AguaSeal fabric, laid into the wet MonoBase coating, and immediately saturate the top of fabric with an additional coat of MonoBase. Care should be given to ensure that adjacent runs of fabric are overlapped a minimum of 4 inches.

MonoBase coats should only be applied with the use of approved roof brushes. Rolling and spraying of the Base coats are not permitted and will nullify the issue of an AguaSeal warranty.

- b. Vertical Seams- Unless specified by the AguaSeal Technical Representative, Vertical standing seams are NOT flashed with 6” fabric.
- c. Horizontal Laps- Using MonoBase and 12” fabric, waterproof all horizontal laps being careful not to create “fish mouths”.

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- d. Additional Fasteners- Using either AguaCaps, 6" square pieces of fabric and MonoBase, or MonoMastic, waterproof any remaining fasteners not previously waterproofed.
- e. Parapet or Adjoining Vertical Walls - Using MonoBase and project-specific sized AguaSeal fabric (12") waterproof the junction between the horizontal roof plain and any vertical walls. Continue the treatment up vertical surfaces and onto the roof field a minimum of 6 inches in each direction.
- f. Roof Penetrations - Use MonoBase and project-specific sized fabric seal around the base of the penetration, extending at least 6 inches onto the vertical and 6 inches onto the roof field ensuring watertight integrity. Cut flashing to accommodate the shape of the penetration. Both the top and bottom of neoprene pipe boots shall be flashed in a similar fashion.
- g. Roof Drains - Remove drain rings and use MonoBase and project-specific sized fabric and seal the roof drains, extending into the bowl of the drain.

AguaSeal recommends modifying the existing internal drain with the addition of a retrofit drain assembly. Should retrofit drains be installed, the process should take place prior to the roof being cleaned and before the MonoBase system is applied.

- h. Scuppers - Using MonoBase and project-specific sized AguaSeal fabric, waterproof and seal scuppers by extending the chosen system beyond the existing roofing system into and through the scupper.
- i. Wall flashings and Coping caps - using MonoBase and project-specific size fabric seal any seams and fasteners penetrating through wall flashings and coping caps.
- j. Skylights: Curb skylights shall be treated in the same fashion as curb flashings. The entire perimeter shall be flashed with Base and a minimum 6 inches width of AguaSeal fabric. All exposed skylight fasteners shall be encapsulated with Base and AguaCaps as necessary. Fiberglass skylights may be treated with AguaGrip CLEAR to preserve and lock down fibers. DO NOT COAT OVER SKYLIGHTS WITH ANY NON-CLEAR COATING.

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3.3.4 MonoTop Application

25-year Warranty Requirements: Brush, spray or roller apply MonoTop at a coverage rate of 3 gallons per 100 square feet.

Total system dry thickness- Reinforced areas = 52 mils Min.
Non-reinforced areas= 26 mils Min.

NOTE: 25-year warranties may require that the first coat of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 1 coat of Light Gray/Tan/Cotton followed by White or other final color selection.

PROTECTION OF FINISHED WORK

- 3.3.5 Monitor the finished system for 7 days, sweeping any ponding water from the roof surface off to allow for full cure.
- 3.3.6 Verify final film thickness as specified. If the specified dry film thickness has not been achieved, application of additional coating will be required.
- 3.3.7 Visually inspect critical areas of the roof including roof seams and penetrations and touch up with additional MonoSeal coatings to insure complete and adequate coverage.
- 3.3.8 Protect completed membrane from damage by work of other trades. Schedule a sequence of work so that traffic over the new membrane is minimized. Institute required procedures for the protection of the completed membrane during installation of work from other trades throughout the remainder of the construction period. Do not allow traffic of any type on the unprotected membrane.
- 3.3.9 At the completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces, if and where needed. Correct damage by cleaning, repairing, replacing, and/or recoating to make it acceptable to the specifier and/or AguaSeal. Leave in an undamaged condition.

3.4 INSPECTION INFORMATION

Inspect Preliminary Work / Flashing Details for problem areas (e.g., gaps, cracks, fish mouths, air pockets, etc.) to ensure that work is complete and satisfactory.

PART IV ANNUAL MAINTENANCE PROGRAM

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The following are the recommendations for maintaining an AguaSeal Acquisition, LLC MonoSeal Roof System. If you have any questions, please contact our corporate office at 843-614-9663 or your Technical Sales Representative.

- 3.4.4 AguaSeal recommends that the roof area be inspected at least once per quarter
- 3.4.5 During the annual maintenance program, remove all debris from the roof surface, including any vegetation, dirt, loose nails and screws, unused equipment, etc.
- 3.4.6 Inspect the entire roof surface for any ponding water areas. If ponding is occurring, then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator to remove and correct the problem area.
- 3.4.7 Inspect the roof surface for any punctures, especially around exhaust vents and HVAC units. Should any punctures be found, then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator for repair work.
- 3.4.8 Keep all gutters free of debris. Make sure that the downspouts are draining properly by water testing them.
- 3.4.9 Trim back any overhanging tree branches.
- 3.4.10 Check all caulking and sealants on flashings and copings. Scrape and remove any caulking that is weather cracked and damaged. Clean the area thoroughly using a wire brush if necessary. Reapply polyurethane caulking such Vulkem, NP-1, or equivalent.
- 3.4.11 Check the mortar on chimneys and parapet walls, both in between the brick and on top. If it is damaged or deteriorating, have it tuck-pointed. Any mason can perform this work.
- 3.4.12 An AguaSeal roof should be cleaned at least once a year (not required) to remove surface debris build-up for improved reflectivity and cool roof benefits. Use a soft bristle wash brush and a mild detergent to remove build-up. Rinse thoroughly to remove detergents. DO NOT POWERWASH.

END

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SECTION 07560

LIQUID-APPLIED FABRIC-REINFORCED ROOFING AND WATERPROOFING (OVER EXISTING METAL R-PANEL ROOFS with SOLAR)

PART 1 GENERAL

1.1 DESCRIPTION

This specification is designed specifically for the application of the MonoSeal Waterproofing System (Primers, MonoBase, AguaSeal Fabrics, and MonoTop) over the following existing roofing systems:

- a) Corrugated Metal Panels
- b) Metal R-Panels
- c) 5V Crimp (Barn Metal)

1.2 DESCRIPTION OF LIQUID-APPLIED ROOF SYSTEMS

The liquid-applied roofing system shall consist of a reinforced elastomeric system specifically designed for use on a roof. The system must have approval by FMRC (Factory Mutual Research Corporation) according to Standard 4470 for Class 1 Roof Constructions which includes- Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications.

1.3 SECTION INCLUDES

This specification incorporates the application of substrate suitable primers and the installation of the liquid-applied flexible acrylic waterproofing system over a range of existing roofing systems. This work shall include the preparation of the existing substrate, application of the primer(s), application of the new roofing and waterproofing system, the detail work flashing system, and final clean-up.

1.4 RELATED WORK

The contractor shall review all sections of these specifications to determine items of work that will interface with the application of this roofing system. Coordination and execution of related sections shall be the responsibility of the contractor.

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1.5 REFERENCES

1. ASTM B117 - Test Method of Salt Spray (Fog) Testing.
2. ASTM G-29 - Test Methods for Algae Resistance.
3. ASTM E-108 - Test Method for Fire Test of Roof Coverings.
4. ASTM D-1653 - Water Vapor Transmission of Materials.
5. ASTM G26 - Practice for Operating Light- and Water-Exposure Apparatus for exposure of Nonmetallic Materials.
6. ASTM D-412 - Ultimate Tensile Strength at Break.
7. ASTM D-6083 - Standard Specification for Liquid Applied Acrylic Coatings used in roofing.
8. ASTM C1549 - Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer
9. ASTM C1371 - Standard test method for determination of emittance of materials near room temperature using portable emissometers
10. FM 4470 - Standard for Class 1 Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications

1.6 SUBMITTALS

1. Shop Drawings: Submit drawings showing the layout of joint reinforcing and all flashing details, including edges, closures, penetrations, etc.
2. Product Data: Provide AguaSeal Acquisition, LLC (AguaSeal) technical data for each of the products that comprise the whole roofing and waterproofing system.
3. Manufacturer's Installation Instructions: Provide technical data and application instruction sheets from AguaSeal for the total scope of work regarding the specific project.
4. Verify field measurements and submit materials list, including quantities, to be applied to achieve specified membrane thickness.
5. Manufacturer's Certificate: Provide Certification that each of the products to be utilized meets or exceeds specified requirements.

1.7 QUALIFICATIONS

1. Applicator Qualifications: AguaSeal shall have sole discretion, including the right of refusal to disqualify, regarding the qualifications of the proposed

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applicator of any AquaSeal products specified for the project. Minimum requirements for approval of Applicators for the specified project are 3 years of known and documented history of successful application of liquid-applied waterproofing systems.

2. Approved Applicators will also have necessary and documented experience in the application of liquid-applied waterproofing systems on roofs of a similar size and scale as specified for this project.
3. Proof of this qualification shall be provided, if and as necessary, in written form by AquaSeal.

1.8 QUALITY CONTROL

1. Codes and Standards: The contractor shall be required to be familiar with and acquainted with the building codes, regulations, and standards governing the specified project.
 - a) There shall be no variation from these specifications unless said variation is submitted in writing and approved by the specification author and AquaSeal and/or its Technical Sales Representative (TSR).
 - b) An Approved Applicator (as designated by AquaSeal) shall be on-site during all applications of any AquaSeal products.
2. Manufacturer's Technical Sales Representative (TSR): AquaSeal TSR shall be on-site at regular intervals, spread no more than 7-10 business days apart, during the application process. At the Building Owner's specific request, the TSR shall, following each site visit, provide a written inspection report. To be in compliance with Warranty requirements, the TSR is required by AquaSeal to approve the application process at the following specific stages:
 - a) Prior to the commencement of the work to evaluate and advise, regarding specific elements of the project that may require an additional scope of work over and above standard installation procedures,
 - b) At initial application of any AquaSeal primer(s), and commencement of the MonoBase and fabric scope of work,
 - c) To comply with AquaSeal warranty requirements, inspections at 7 to 10 day intervals during the MonoBase and fabric scope of the work,
 - d) During and after the MonoTop scope of work and upon completion of the project and prior to any issuance of the warranty.

3. The application of this coating system must be in accordance with AguaSeal application rate for required dry film thickness, published application instructions, and Material Safety Data Sheets.
4. The specified roofing system must be installed by AguaSeal authorized roofing applicator in compliance with drawings and specifications as provided by AguaSeal.
5. There must be no deviations made from the AguaSeal specification or AguaSeal's approved shop drawings without the PRIOR WRITTEN APPROVAL of an officer of AguaSeal Acquisition, LLC.
6. The solar reflectance of this roofing product may decrease over time due to environmental defacement such as dirt, biological growth, ponded water, etc. The roof should be monitored at regular intervals and maintained or cleaned when necessary to assure maximum solar reflectance.

1.9 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
 1. Name of manufacturer
 2. Name of contents and products code
 3. Net volume of contents
 4. Lot or batch number
 5. Storage temperature limits
 6. Shelf-life expiration date
 7. Mixing instructions and proportions of content
 8. Safety information and instructions
2. Store materials in accordance with AguaSeal instructions.
It is essential that the product be protected from the elements to preserve its integrity. Contact the AguaSeal Technical Sales Representative for guidance.
3. Store materials at temperatures between 40 - 90 degrees F (4 - 32 degrees C). Keep out of direct sunlight.
4. Support stored material containers on pallets or otherwise off the potentially wet ground as necessary.
5. Handle materials in accordance with the manufacturer's recommendations.

1.10 ENVIRONMENTAL REQUIREMENTS

The MonoSeal System should only be applied if no rain is expected before the application has had time to dry and if ambient temperatures are 40F (4.5C) or above.

1.11 WARRANTY

MonoTop finish coating will be applied over a MonoBase and fabric foundation to build millage to warranty requirements.

The application rates vary with the warranty selected. The total system dry thickness will also vary based on the MonoBase coating used and the warranty selected. See section 3.3 for application and minimum dry thickness amounts.

In all options, the following are requirements for obtaining an AguaSeal Warranty.

1. Provide applicable timeframe AguaSeal material only or labor and material warranty (see Application, below).
2. The Contractor shall be responsible for an initial three years of labor warranty with AguaSeal being responsible for material only or both labor and material, subject to the specific agreement, from year four forward.
3. Manufacturer is responsible for the labor portion of the warranty from year four forward.
4. To qualify for any Agua-Seal Warranty, the system must comply with the following minimum dry film thickness where reinforcing fabric is used;

MonoSeal System -		
(reinforced Areas)	25 Year	52 mils dry minimum.

MonoSeal System -		
(Not reinforced)	25 Year	26 mils dry minimum

25-year Leak Free Warranties may require that the first two coats of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 2 x coat Light Gray/Tan/Cotton followed by 2 coats of White or other final color selection.

25-year Leak Free Warranties require the use of fabric reinforcement on vertical seams and fasteners. The final MonoTop color must be Dove Grey or a lighter color unless approved in writing by an officer of AguaSeal Acquisition, LLC or

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authorized representative.

1.12 PROJECT CONDITIONS

- A. Acceptable Substrates: Acceptable substrates for the MonoSeal System shall be any of the following: Commercial R-Panel or similar 3' wide lapped metal panel roofs, 5V metal panels, corrugated metal panels or other substrates approved by AquaSeal.
- B. GC should conduct a roof scan on flat and low slope roofs of all types prior to commencement of any AquaSeal work, in order to comply with AquaSeal requirements.
- C. Substrate: After existing roofing systems are cleaned and repaired by the system installer, as required, but prior to starting the membrane system installation work, complete all substrate corrective actions required, including but not limited to; removal and replacement of deteriorated flashing, roof decking, removal and replacement of wet insulation. The substrate shall be smooth, dry, and free of debris.

PART 2 PRODUCTS

2.1 MANUFACTURER

- 1. AquaSeal Acquisitions, LLC
7269 Cross Park Dr, North Charleston, SC 29418
Phone: (843) 614 9663 www.aquaseal.com

2.2 MEMBRANE COMPOUND MATERIAL

- 2. Waterproofing Material:
 - a) MonoSeal System, namely a water-based, fabric reinforced, highly flexible acrylic coating system which is liquid applied in three successive stages, creating one continuous and seamless watertight membrane, with a 40-mil minimum, dry, cured total system thickness;
 - 1.1 The MonoSeal System is comprised of:
 - I. Appropriate Primers
 - II. MonoBase: a blend of highly flexible, water-based, 100% pure, acrylic polymer, resin coatings.
 - III. Fabric: AquaSeal non-woven polyester, stitch-bonded, heat-set

fabric.

- IV. MonoTop: an ultra-violet light resistant blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings

Reinforcing Fabric: This material shall be non-woven 100% polyester, stitch-bonded, heat-set fabric, as specified by the Architect/Engineer;

- a) 272: Weight: Minimum (2.73oz), Target (3.04oz), Maximum (3.34oz)
b) 272: Tensile Strength: MD: 67 lbs., CD: 59 lbs. per ASTM D5034
b) 272: Elongation @ Break: MD: 25%, CD: 79% per ASTM D5034
c) 272: Ball Burst: 109 lbs. per ASTM D3787
d) 272: Trapezoid: MD: 22 lbs., CD: 21 lbs. per ASTM D5587
e) 272: Thickness: 0.018 inches per ASTM D1777

2.3 CURED MEMBRANE CHARACTERISTICS

PROPERTY	TEST	RESULT
Elongation	ASTM-D638	>300% Elastomeric
	ASTM-D2370	>220% @ Break
Tensile Strength (cured)	ASTM-D412	>2000 PSI (12,789 kPa)
	ASTM-D2370	>210 PSI
Density		12.1 lb./gal
Volume Solids	ASTM-D2697	> or = 50%
Weight Solids	ASTM-D1644	> or = 65%
Viscosity	ASTM D562	129 Krebs @ 77°F
Algae Resistance	ASTM-G29	No Growth Supported
Moisture Vapor	ASTM-D1653	3 perms
Tear Resistant	ASTM-624	81 (Lbf/in)
Fire Rating	ASTM-E108	Class A
VOC (calculated)		< 72 g/L
Susceptibility to Leakage	FM-4470	
Windstorm Pressure	FM-4470	
Severe Hail Test	FM-4470	No Separation or Rupture 1 SH
Resistance to Foot Traffic	FM-4470	No Sign of Tearing or Cracking
Liquid Applied Acrylic	ASTM-D6083	Approved
Weathering	ASTM-G26	No effect after 3,000 hours
Salt Spray Test	ASTM-B117	No effect
Fire Rating	ASTM-E108	Class A

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Low Temperature Flexibility (-15°F)	ASTM-D522	Pass
Liquid Applied Acrylic	ASTM-D6083	Approved
Solar Reflectance	ASTM-C1549	> or = 0.79
Thermal Emittance	ASTM-C1371	> or = 0.90

2.4 ACCESSORIES

A. Cant Strips: AguaSeal-approved cant strip systems are EPS (Expanded Polystyrene), ISO (Polyisocyanurate), and non-pressure treated lumber. Cant strips should be installed at internal corners, around curbs, and at any 90-degree angles, all as recommended by the Technical Sales Representative.

2.6 Retrofit Internal Drains: Optional unless specified by AguaSeal Technical Representative. Retrofit roof drains are designed to replace existing drains in reroofing applications. Installed from the roof surface, retrofit drains are engineered to be installed without removing the existing plumbing or fixture while providing a watertight connection to the roof system and the existing plumbing.

2.7 AguaBase Below Grade (BG): AguaBase BG may be made into a trowel grade acrylic, cementitious, moderately flexible, and elastomeric bulking material by increasing the Portland #1 Cement or sand in the AguaBase BG mix process. It is used in conjunction with AguaBase BG or MonoBase to fill cracks, voids, or low depressions on various substrates, repair existing delaminated roofing, and provide a harder, more durable, and ponding water tolerant surface around roof drains and scuppers.

2.8 PanelSeal Metal Primer: Water-based primer used to encapsulate existing rust, stabilize and protect metal surfaces.

2.9 AguaGrip: AguaGrip is a low viscosity primer adhesive providing excellent adhesion to virtually all roof substrates. It can be used to seal chalky residue substrates, re-adhere loose granules on a cap sheet, to encapsulate difficult-to-remove dust and dirt. AguaGrip makes an excellent bleed-blocker and aid system for leveling surfaces such as old built-up, granulated modified bitumen, and other, ballasted roofing substrates, making them ready for application of any of the MonoSeal System. In addition to the above-mentioned substrates, AguaGrip can be used effectively to seal virtually all surfaces, including asphalt, concrete, asbestos, cement roofing, plastisol coated metal, and other pre-coated surfaces.

2.10 AguaPath: a hardwearing, flexible, and durable water-based, coating for the protection of walkways and pedestrian areas on various roofing substrates. Contact the AguaSeal TSR for suitability of purpose subject to the substrate.

- 2.11 299SRW Roof Wash:** Used for roofs that have previously been coated with aluminum coating. This product is used to remove the aluminum coating from the existing roof allowing the MonoSeal System to adhere properly. Product is diluted on the jobsite with 2 parts water and applied prior to pressure washing. Ensure that the treated area remains wet with the 299SRW for a minimum of 15 minutes before pressure washing begins.

PART 3 EXECUTION

3.1 EXAMINATION

1. Ensure the substrate surfaces are clean and dry, free of loose particles, cracks, pits, projections, or otherwise anything that may prevent adhesion or the successful application of the waterproofing system.
2. Ensure any penetrations through the substrate to be treated are securely installed.
3. Ensure that substrate areas are adequately supported and firmly fastened in place.
4. Ensure the roof substrate has a minimum slope of 0.25" per foot.
5. Ensure the roof substrate is free of any ponding water depressions. In the case of such depressions, AguaBase BG Trowel Grade may be used to level out the substrate. Allow to dry before any further product application. In the case of larger areas of ponding water probability, AguaBase BG, Fabric, AguaBase BG, and another coat of AguaBase BG should be applied over the MonoBase application in that specific area.
6. Ensure all attached parapet/vertical walls are properly treated with the MonoSeal System.

3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.
2. Remove lightning protection.
3. Roofs with Aluminum Coating- Apply 299SRW Roof Wash at a dilution rate of 1 part product to two parts water. Ensure that the applied cleaner remains wet for a minimum of 15 minutes before pressure washing.
4. Clean and prepare surfaces to receive waterproofing treatment by removing all

loose and flaking particles, grease and any growing organic materials by power wash (3000 psi) and a stiff bristle push broom. Extreme care should be taken not to inject water into the substrate during washing. In some cases, additional drying time may be required after the cleaning process. Please consult your AguaSeal Technical Sales Representative for additional advice on cleaning various roofing substrates.

5. Following power washing, ensure that any remaining loosely adhering residue of previous coatings is removed to facilitate good adhesion.
6. Make any repairs required to the existing substrate. In areas where the existing roofing system is not fully adhered:
 - a) Remove any non-adhering roofing.
 - b) Tighten all existing loose fasteners or replace them with "oversized" roofing fasteners. Replace all missing fasteners.
7. Do not apply any AguaSeal treatment to any surfaces deemed unacceptable to the TSR.

3.3 APPLICATION

- 3.3.1 Surface Primers - As necessary, apply one of the following primers at the proper coverage rates. Contact AguaSeal TSR to verify if a primer is required

AguaGrip - Apply AguaGrip at a minimum of 140 square feet per gallon.

PanelSeal Metal Primer- Apply Panel Seal Metal Primer to opacity (approximately 200 square feet per gallon to any/all rusted metal areas designated to receive waterproofing treatment.

3.3.2 MonoBase Application with Fabric or Mastic

- a. Apply project-specific size AguaSeal fabric, laid into the wet MonoBase coating, and immediately saturate the top of fabric with an additional coat of MonoBase. Care should be given to ensure that adjacent runs of fabric are overlapped a minimum of 4 inches.

MonoBase coats should only be applied with the use of approved roof brushes. Rolling and spraying of the Base coats are not permitted and will nullify the issue of an AguaSeal warranty. MonoBase is only used in conjunction with a fabric application and is not applied to non-fabricated areas of the roof.

Vertical Seams- Use MonoBase and 6" fabric, waterproof all vertical seams centering the MonoBase and fabric over the panel edge.

- b. Horizontal Laps- Using MonoBase and 12" fabric, waterproof all horizontal laps being careful not to create "fish mouths".

Additional Fasteners- Apply a generous amount of Butter grade to the fastener and the immediate panel surface around the fastener and allow to dry.

Option #2- When specified by an AguaSeal Technical Representative, Use a 6" square pieces of fabric and MonoBase, waterproof any remaining fasteners not previously waterproofed.

- c. Parapet or Adjoining Vertical Walls - Using MonoBase and project-specific sized AguaSeal fabric (12") waterproof the junction between the horizontal roof plain and any vertical walls. Continue the treatment up vertical surfaces and onto the roof field a minimum of 6 inches in each direction.
- d. Roof Penetrations - Use MonoBase and project-specific sized fabric seal around the base of the penetration, extending at least 6 inches onto the vertical and 6 inches onto the roof field ensuring watertight integrity. Cut flashing to accommodate the shape of the penetration. Both the top and bottom of neoprene pipe boots shall be flashed in a similar fashion.
- e. Roof Drains - Remove drain rings and use MonoBase and project-specific sized fabric and seal the roof drains, extending into the bowl of the drain.

AguaSeal recommends modifying the existing internal drain with the addition of a retrofit drain assembly. Should retrofit drains be installed, the process should take place prior to the roof being cleaned and before the MonoBase system is applied.

- f. Scuppers - Using MonoBase and project-specific sized AguaSeal fabric, waterproof and seal scuppers by extending the chosen system beyond the existing roofing system into and through the scupper.
- g. Wall flashings and Coping caps - using MonoBase and project-specific size fabric seal any seams and fasteners penetrating through wall flashings and coping caps.
- h. Skylights: Curb skylights shall be treated in the same fashion as

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curb flashings. The entire perimeter shall be flashed with Base and a minimum 6 inches width of AquaSeal fabric. All exposed skylight fasteners shall be encapsulated with Base and AquaCaps as necessary. Fiberglass skylights may be treated with AquaGrip CLEAR to preserve and lock down fibers. DO NOT COAT OVER SKYLIGHTS WITH ANY NON-CLEAR COATING.

3.3.4 MonoTop Application

20-year Warranty Requirements: Brush, spray or roller apply MonoTop at a coverage rate of 3 gallons per 100 square feet.

Total system dry thickness-	Reinforced areas =	52 mils Min.
	Non-reinforced areas=	26 mils Min.

NOTE: 20-year warranties may require that the first coat of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 1 coat of Light Gray/Tan/Cotton followed by White or other final color selection.

PROTECTION OF FINISHED WORK

- 3.3.5 Monitor the finished system for 7 days, sweeping any ponding water from the roof surface off to allow for full cure.
- 3.3.6 Verify final film thickness as specified. If specified dry film thickness has not been achieved, application of additional coating will be required.
- 3.3.7 Visually inspect critical areas of the roof including roof seams and penetrations and touch up with additional MonoSeal coatings to insure complete and adequate coverage.
- 3.3.8 Protect completed membrane from damage by work of other trades. Schedule sequence of work so that traffic over the new membrane is minimized. Institute required procedures for the protection of completed membrane during installation of work from other trades throughout the remainder of the construction period. Do not allow traffic of any type on the unprotected membrane.
- 3.3.9 At the completion of construction activities of other trades, touch-up and restore damaged or defaced coated surfaces, if and where needed. Correct damage by cleaning, repairing, replacing, and/or recoating to make acceptable to the specifier and/or AquaSeal. Leave in an undamaged condition.

3.4 INSPECTION INFORMATION

Inspect Preliminary Work / Flashing Details for problem areas (e.g., gaps, cracks, fish mouths, air pockets, etc.) to ensure that work is complete and satisfactory.

PART IV ANNUAL MAINTENANCE PROGRAM

The following are the recommendations for maintaining an AguaSeal Acquisition, LLC MonoSeal Roof System. If you have any questions, please contact our corporate office at 843-614-9663 or your Technical Sales Representative.

- 3.4.4 AguaSeal recommends that the roof area be inspected at least once per quarter
- 3.4.5 During the annual maintenance program, remove all debris from the roof surface, including any vegetation, dirt, loose nails and screws, unused equipment, etc.
- 3.4.6 Inspect the entire roof surface for any ponding water areas. If ponding is occurring, then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator to remove and correct the problem area.
- 3.4.7 Inspect the roof surface for any punctures, especially around exhaust vents and HVAC units. Should any punctures be found, then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator for repair work.
- 3.4.8 Keep all gutters free of debris. Make sure that the downspouts are draining properly by water testing them.
- 3.4.9 Trim back any overhanging tree branches.
- 3.4.10 Check all caulking and sealants on flashings and copings. Scrape and remove any caulking that is weather cracked and damaged. Clean the area thoroughly using a wire brush if necessary. Reapply polyurethane caulking such Vulkem, NP-1, or equivalent.
- 3.4.11 Check the mortar on chimneys and parapet walls, both in between the brick and on top. If it is damaged or deteriorating, have it tuck-pointed. Any mason can perform this work.
- 3.4.12 An AguaSeal roof should be cleaned at least once a year (not required) to remove surface debris build-up for improved reflectivity and cool roof benefits. Use a soft bristle wash brush and a mild detergent to remove build-up. Rinse thoroughly to remove detergents. DO NOT POWERWASH.

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LIQUID-APPLIED ROOFING AND WATERPROOFING

END

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LIQUID-APPLIED ROOFING AND WATERPROOFING

**SECTION 07560
LIQUID-APPLIED FABRIC-REINFORCED ROOFING
AND WATERPROOFING (OVER EXISTING TPO,
PVC or HYPALON with SOLAR)**

PART 1 GENERAL

1.1 DESCRIPTION

This specification is designed specifically for the application of the MonoSeal Waterproofing System (Primers, MonoBase, AquaSeal Fabrics and MonoTop) over the following existing roofing systems:

- a) PVC (Polyvinyl Chloride)
- b) Hypalon (Chlorosulfonated Polyethylene)
- c) TPO (Thermoplastic Polyolefin)

1.2 DESCRIPTION OF LIQUID-APPLIED ROOF SYSTEMS

The liquid-applied roofing system shall consist of a reinforced elastomeric system specifically designed for use on a roof. The system must have approval by FMRC (Factory Mutual Research Corporation) according to Standard 4470 for Class 1 Roof Constructions which includes- Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications.

1.3 SECTION INCLUDES

This specification incorporates the application of substrate suitable primers and the installation of the liquid-applied flexible acrylic waterproofing system over a range of existing roofing systems. This work shall include the preparation of the existing substrate, application of the primer(s), application of the new roofing and waterproofing system, the detail work flashing system, and final clean up.

1.4 RELATED WORK

The contractor shall review all sections of these specifications to determine items of work that will interface with the application of this roofing system. Coordination and execution of related sections shall be the responsibility of the contractor.

1.5 REFERENCES

1. ASTM B117 - Test Method of Salt Spray (Fog) Testing.
2. ASTM G-29 - Test Methods for Algae Resistance.
3. ASTM E-108 - Test Method for Fire Test of Roof Coverings.
4. ASTM D-1653 - Water Vapor Transmission of Materials.
5. ASTM G26 - Practice for Operating Light- and Water-Exposure Apparatus for exposure of Nonmetallic Materials.
6. ASTM D-412 - Ultimate Tensile Strength at Break.
7. ASTM D-6083 - Standard Specification for Liquid Applied Acrylic Coatings used in roofing.
8. FM 4470 - Standard for Class 1 Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications

1.6 SUBMITTALS

1. Shop Drawings: Submit drawings showing the layout of joint reinforcing and all flashing details, including edges, closures, penetrations, etc.
2. Product Data: Provide AguaSeal Waterproofing Systems' technical data for each of the products that comprise the whole roofing and waterproofing system.
3. Manufacturer's Installation Instructions: Provide technical data and application instruction sheets from AguaSeal Waterproofing Systems for the total scope of work regarding the specific project. Reference the AguaSeal "Swift Spec" for Solar over TPO, PVC, or Hypalon and the AguaSeal Manufacturers Technical Representative.
4. Verify field measurements and submit a materials list, including quantities, to be applied to achieve specified membrane thickness.
5. Manufacturer's Certificate: Provide Certification that each of the products to be utilized meet or exceed specified requirements.

1.7 QUALIFICATIONS

1. Applicator Qualifications: AguaSeal Waterproofing Systems shall have sole discretion, including the right of refusal to disqualify, regarding the qualifications of the proposed applicator of any AguaSeal Waterproofing Systems products specified for the project. The minimum requirements for approval of Applicators for the specified project are 3 years known and

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documented history of successful application of liquid-applied waterproofing systems.

2. Approved Applicators will also have necessary and documented experience in the application of liquid-applied waterproofing systems on roofs of a similar size and scale as specified for this project.
3. Proof of this qualification shall be provided, if and as necessary, in written form by AguaSeal Waterproofing Systems.

1.8 QUALITY CONTROL

1. Codes and Standards: The contractor shall be required to be familiar and acquainted with the building codes, regulations, and standards governing the specified project.
 - a) There shall be no variation from these specifications unless said variation is submitted in writing and approved by the specification author and AguaSeal and/or its Technical Sales Representative (TSR).
 - b) An Approved Applicator (as designated by AguaSeal) shall be on site during all applications of any AguaSeal products.
2. Manufacturer's Technical Sales Representative (TSR): AguaSeal's TSR shall be on site at regular intervals, spread no more than 7-10 business days apart, during the application process. At the Building Owner's specific request, the TSR shall, following each site visit, provide a written inspection report. To be in compliance with Warranty requirements, the TSR is required by AguaSeal to approve the application process at the following specific stages:
 - a) Prior to the commencement of the work to evaluate and advise, regarding specific elements of the project that may require additional scope of work over and above standard installation procedures,
 - b) At initial application of any AguaSeal primer(s), and commencement of the MonoBase and fabric scope of work,
 - c) To comply with AguaSeal warranty requirements, inspections at 7 to 10 day intervals during the MonoBase and fabric scope of the work,
 - d) During and after the MonoTop scope of work and upon completion of the project and prior to any issuance of warranty.
3. The application of this coating system must be in accordance with AguaSeal

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application rate for required dry film thickness, published application instructions and Material Safety Data Sheets.

4. The specified roofing system must be installed by AguaSeal authorized roofing applicator in compliance with drawings and specifications as provided by AguaSeal.
5. There must be no deviations made from AguaSeal's specification or AguaSeal's approved shop drawings without the PRIOR WRITTEN APPROVAL of AguaSeal.
6. The solar reflectance of this roofing product may decrease over time due to environmental defacement such as dirt, biological growth, ponded water, etc. The roof should be monitored at regular intervals and maintained or cleaned when necessary to assure the maximum solar reflectance.

1.9 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
 1. Name of manufacturer
 2. Name of contents and products code
 3. Net volume of contents
 4. Lot or batch number
 5. Storage temperature limits
 6. Shelf-life expiration date
 7. Mixing instructions and proportions of content
 8. Safety information and instructions
2. Store materials in accordance with AguaSeal's instructions. **It is essential that product be protected from the elements to preserve its integrity.** Contact the AguaSeal Technical Sales Representative for guidance.
3. Store materials at temperatures between 40 - 90 degrees F (4 - 32 degrees C). Keep out of direct sunlight.
4. Support stored material containers on pallets or otherwise off potentially wet ground as necessary.
5. Handle materials in accordance with the manufacturer's recommendations.

1.10 ENVIRONMENTAL REQUIREMENTS

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The MonoSeal System should only be applied if no rain is expected before the application has had time to dry and if ambient temperatures are 40F (4.5C) or above.

1.11 WARRANTY

MonoTop finish coating will be applied over a MonoBase and Fabric foundation to build millage to Warranty requirements.

The following are the requirements for obtaining an AguaSeal Warranty.

1. Provide an AguaSeal 25 Year labor and material warranty (see Application, below).
2. The Contractor shall be responsible for an initial three years of labor with AguaSeal being responsible for both labor and material, subject to the specific agreement, from year four forward.
3. Manufacturer is responsible for the labor portion of the warranty from year four forward.
4. To qualify for any Agua-Seal 25-Year Solar Warranty the system must comply to the following minimum dry film thickness;

MonoSeal System - 25 Year 52 mils dry minimum.

25-year Leak Free Warranties may require that the first coat of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 1 x coat Light Gray/Tan/Cotton followed by 2/3 coats of White or other final color selection. The proper milage can be achieved with 3 passes if applied at the proper wet mil thickness.

1.12 PROJECT CONDITIONS

- A. Acceptable Substrates: Acceptable substrates for the AguaSeal MonoBase and MonoTop (MonoSeal System) shall be one of the following: TPO, PVC, Hypalon, or other substrates approved by AguaSeal.
- B. TPO Pull Test- A pull test shall be conducted on all TPO roofs to ensure a minimum adhesion of 2 pounds per square inch.
- C. GC should conduct a roof scan and verify results by conducting core samples at no less than 1 per 1000 ft² on flat and low slope roofs of all types prior to commencement of any AguaSeal work, in order to comply with AguaSeal Warranty requirements.

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- D. Substrate: After existing roofing systems are cleaned and repaired by the system installer, as required, but prior to starting the membrane system installation work, complete all substrate corrective actions required, including but not limited to; removal and replacement of deteriorated flashing, roof decking, removal and replacement of wet insulation. Substrate shall be smooth, dry, and free of debris.

PART 2 PRODUCTS

2.1 MANUFACTURER

1. AguaSeal Acquisition, LLC
3609 River Road, Johns Island, Charleston, SC 29455
Phone: (843) 614 9663 www.aquaseal.com

2.2 MEMBRANE COMPOUND MATERIAL

2. Waterproofing Material:
 - a) MonoSeal System, namely a water-based, fabric reinforced, highly flexible acrylic coating system which is liquid-applied in three-four successive stages, creating one continuous and seamless watertight membrane, with a 53-mil minimum, dry, cured total system thickness;
 - 1.1 The MonoSeal System is comprised of:
 - I. Appropriate Primers
 - II. MonoBase: a blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings.
 - III. Fabric: AguaSeal non-woven polyester, stitch-bonded, heat-set fabric.
 - IV. MonoTop: an ultra-violet light resistant blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings

Reinforcing Fabric: This material shall be non-woven 100% polyester, stitch bonded, heat-set fabric, as specified by the Architect/Engineer;

- a) 272: Weight: Minimum (2.73oz), Target (3.04oz), Maximum (3.34oz)
- b) 272: Tensile Strength: MD: 67 lbs., CD: 59 lbs. per ASTM D5034

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- b) 272: Elongation @ Break: MD: 25%, CD: 79% per ASTM D5034
- c) 272: Ball Burst: 109 lbs. per ASTM D3787
- d) 272: Trapezoid: MD: 22 lbs., CD: 21 lbs. per ASTM D5587
- e) 272: Thickness: 0.018 inches per ASTM D1777

2.3 CURED MEMBRANE CHARACTERISTICS

PROPERTY	TEST	RESULT
Elongation	ASTM-D638	>300% Elastomeric
Tensile Strength (cured)	ASTM-D412	>2000 PSI (12,789 kPA)
Density		12.1 lb./gal
Volume Solids		> or = 53%
Weight Solids		> or = 66%
Algae Resistance	ASTM-G29	No Growth Supported
Moisture Vapor	ASTM-E96	3 perms
Weathering	ASTM-G26	No effect after 3,000 hours
Salt Spray Test	ASTM-B117	No effect
Fire Rating	ASTM-E108	Class A
VOC (calculated)		< 72 g/L
Susceptibility to Leakage	FM-4470	
Windstorm Pressure	FM-4470	
Severe Hail Test	FM-4470	No Separation or Rupture 1 SH
Resistance to Foot Traffic	FM-4470	No Sign of Tearing or Cracking
Liquid Applied Acrylic	ASTM-D6083	Approved
Solar Reflectance	ASTM-C1549	> or = 0.79
Thermal Emittance	ASTM-C1371	> or = 0.90

2.4 ACCESSORIES

- A. Cant Strips:** AguaSeal Waterproofing Systems' approved cant strip systems are EPS (Expanded Polystyrene), ISO (Polyisocyanurate) and non-pressure treated lumber. Cant strips should be installed at internal corners, around curbs, and at any 90-degree angles, all as recommended by the Technical Sales Representative.
- B. Moisture Breathers/One Way Vents:** Moisture breathers, otherwise known as 'One Way Vents' shall be installed on every roofing remediation project as recommended by the Technical Sales Representatives.
- C. Retrofit Internal Drains:** Optional unless specified by AguaSeal Technical Representative. Retrofit roof drains are designed to replace existing drains in

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reroofing applications. Installed from the roof surface, retrofit drains are engineered to be installed without removing the existing plumbing or fixture while providing a watertight connection to the roof system and the existing plumbing.

- D. AguaBase Below Grade (BG):** AguaBase BG may be made into a trowel grade acrylic, cementitious, moderately flexible and elastomeric bulking material by increasing the Portland #1 Cement or sand in the AguaBase BG mix process. It is used in conjunction with AguaBase BG or MonoBase to fill cracks, voids, or low depressions on various substrates, to repair existing delaminated roofing and to provide a harder, more durable and ponding water tolerant surface around roof drains and scuppers.
- E. PanelSeal Metal Primer:** Water based primer used to encapsulate existing rust, stabilize and protect metal surfaces.
- F. AguaGrip:** AguaGrip is a low viscosity primer adhesive providing excellent adhesion to virtually all roof substrates. It can be used to seal chalky residue substrates, to re-adhere loose granules on a cap sheet, to encapsulate difficult to remove dust and dirt. AguaGrip makes an excellent bleed-blocker and aid system for leveling surfaces such as old built-up, granulated modified bitumen and other, ballasted roofing substrates, making them ready for application of any of the MonoSeal System. In addition to the above-mentioned substrates, AguaGrip can be used effectively to seal virtually all surfaces, including asphalt, concrete, asbestos, cement roofing, plastisol coated metal and other pre-coated surfaces.
- G. AguaPath:** a hardwearing, flexible and durable water-based, coating for protection of walkways and pedestrian areas on various roofing substrates. Contact the AguaSeal TSR for suitability of purpose subject to substrate.

PART 3 EXECUTION

3.1 EXAMINATION

1. Ensure the substrate surfaces are clean and dry, free of loose particles, cracks, pits, projections, or otherwise anything that may prevent adhesion or the successful application of the waterproofing system.
2. Ensure any penetrations through the substrate to be treated are securely installed.
3. Ensure that substrate areas are adequately supported and firmly fastened in place. SOLAR RACKING included.

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4. Ensure the roof substrate has a minimum slope of 0.25" per foot.
5. Ensure the roof substrate is free of any ponding water depressions. In the case of such depressions AguaBase BG Trowel Grade may be used to level out the substrate. Allow to dry before any further product application. In the case of larger areas of ponding water probability, AguaBase BG, Fabric, AguaBase BG, and another coat of AguaBase BG should be applied over the MonoBase application in that specific area.
6. Ensure all attached parapet/vertical walls are properly treated with the MonoSeal System.

3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.
2. Remove lightning protection. Pre-Check for any previously Certified Systems, re-certifications may be required.
3. Clean and prepare surfaces to receive waterproofing treatment by removing all loose and flaking particles, grease and any growing organic materials by power wash and a stiff bristle push broom. Extreme care should be taken not to inject water into the substrate during washing. In some cases, additional drying time may be required after the cleaning process. Please consult your AguaSeal Technical Sales Representative for additional advice on cleaning various roofing substrates.
4. Following power washing, ensure that any remaining loosely adhering residue of previous coatings is removed to facilitate good adhesion.
5. Make any repairs required to the existing substrate. In areas where the existing roofing system is not fully adhered:
 - a) Remove any non-adhering roofing.
 - b) Where necessary install deemed approved recovery board to bring the repair area level with the existing roofing.
 - c) Prime the repair area with a thin coat of AguaGrip, MonoBase, AguaBase BG slurry or MonoBase Butter Grade as recommended by the TSR.
 - d) Apply MonoBase, AguaBase BG, or AguaBase Trowel Grade to the repair area as recommended by the TSR.
6. Do not apply any AguaSeal MonoSeal System treatment to any surfaces deemed unacceptable to the TSR.
7. Where applicable- apply PanelSeal Metal Primer to opacity (approximately 200

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square feet per gallon) to any/all metal areas designated to receive waterproofing treatment.

3.3 APPLICATION

- 3.3.1 Surface Primers - As necessary, apply one of the following primers at the proper coverage rates. Contact AguaSeal TSR to verify if a primer is required

AguaGrip - Apply AguaGrip at a minimum of 140 square feet per gallon.

PanelSeal Metal Primer- Apply Panel Seal Metal Primer to opacity (approximately 200 square feet per gallon to any/all metal areas designated to receive waterproofing treatment.

AguaBase BG – Apply AguaBase BG slurry, mixed with Portland #1 Cement powder to a consistency suitable for purpose, to heavily alligatored modified bitumen substrate to smooth the surface and prepare it for further application of MonoSeal system with fabric.

3.3.2. MonoBase Application

A. MonoBase Minimum Requirements

1. To attain warranty standard coverage, apply MonoBase at the coverage rate of 2.5 gallons per 100 square feet (averaging 1.5 gallons per 100 square feet below fabric and 1.00 gallons per 100 square feet on top of fabric. This provides a combined total dry thickness including fabric of 24-26mls.

Note: a granulated cap sheet or otherwise 'alligatored' surface substrate may require additional MonoBase.

3.3.3 MonoBase Application with Fabric

- a. Apply project specific size AguaSeal fabric, laid into the wet MonoBase coating and immediately saturate top of fabric with an additional coat of MonoBase. Care should be given to ensure that adjacent runs of fabric are overlapped a minimum of 4 inches.

MonoBase coats should only be applied with the use of approved roof brushes. **Rolling and spraying of the Base coats are not permitted and will nullify the issue of an AguaSeal warranty.**

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- b. Roof Perimeter - Using MonoBase and project specific sized AguaSeal fabric (12") waterproof the entire roof perimeter. Continue the treatment up vertical surfaces and onto deck a minimum of 6 inches in each direction.
- c. Roof Penetrations - Using MonoBase and project specific sized fabric seal around the base of the penetration, extending at least 6 inches onto the vertical and 6 inches onto the base ensuring watertight integrity. Cut flashing to accommodate the shape of the penetration. Both the top and bottom of neoprene pipe boots shall be flashed in similar fashion.
- d. Roof Drains - Remove drain rings and using MonoBase and project specific sized fabric and the seal the roof drains, extending into the bowl of the drain.

AguaSeal recommends modifying the existing internal drain with the addition of a retrofit drain assembly. Should retrofit drains be installed, the process should take place prior after the roof is cleaned and before the MonoBase system is applied.

- e. Scuppers - Using MonoBase and project specific sized AguaSeal fabric, waterproof and seal scuppers by extending the chosen system beyond the existing roofing system into and through the scupper.
- f. Wall flashings and Coping caps - using MonoBase and project specific size fabric seal any seams and fasteners penetrating through wall flashings and coping caps.
- g. Gutters (when applicable): Trowel or brush apply suitable AguaSeal sealant (in accordance with the AguaSeal TSR recommendation) to the interior or exterior gutter. Gutter shall be completely clean and dry before application.
- h. Skylights: Curb skylights shall be treated in the same fashion as curb flashings. The entire perimeter shall be flashed with Base and a minimum 6 inches width of AguaSeal fabric. All exposed skylight fasteners shall be encapsulated with Base and AguaCaps as necessary.
- i. Field of Roof – using Base and 40" AguaSeal fabric, seal the entire field of the roof. Overlap adjacent runs of fabric by a minimum 4".

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3.3.4 MonoTop Application

25-year Warranty Requirements: Brush, spray or roller apply MonoTop at a coverage rate of 3 gallons per 100 square feet.

Total system dry thickness = 52 mils minimum.

NOTE: 25-year warranties require that the first coat of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 1 coat of Light Gray/Tan/Cotton followed by White or other final color selection.

PROTECTION OF FINISHED WORK

- 3.3.5 Monitor the finished system for 7 days, sweeping any ponding water from the roof surface off allow for full cure.
- 3.3.6 Verify final film thickness as specified. If specified dry film thickness has not been achieved, application of additional coating will be required.
- 3.3.7 Visually inspect critical areas of the roof including roof seams and penetrations and touch up with additional MonoSeal coatings to insure complete and adequate coverage.
- 3.3.8 Protect completed membrane from damage by work of other trades. Schedule sequence of work so that traffic over new membrane is minimized. Institute required procedures for protection of completed membrane during installation of work from other trades throughout remainder of construction period. Do not allow traffic of any type on unprotected membrane.
- 3.3.9 At completion of construction activities of other trades, touch-up and restore damaged or defaced coated surfaces, if and where needed. Correct damage by cleaning, repairing, replacing, and/or recoating to make acceptable to the specifier and/or AguaSeal. Leave in an undamaged condition.

3.4 INSPECTION INFORMATION

Inspect Preliminary Work / Flashing Details for problem areas (e.g., gaps, cracks, fish mouths, air pockets, etc.) to ensure that work is complete and satisfactory.

PART IV ANNUAL MAINTENANCE PROGRAM

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LIQUID-APPLIED ROOFING AND WATERPROOFING

The following are the recommendations for maintaining an AquaSeal MonoSeal Roof System. If you have any questions please contact our corporate office at 843-614-9663 or your Technical Sales Representative.

- 3.4.4 AquaSeal recommends that the roof area be inspected at least once per quarter
- 3.4.5 During the annual maintenance program, remove all debris from the roof surface, including any vegetation, dirt, loose nails and screws, unused equipment, etc.
- 3.4.6 Inspect the entire roof surface for any ponding water areas. If ponding is occurring then contact AquaSeal Corporate or your Technical Sales Representative who will recommend an approved AquaSeal applicator to remove and correct the problem area.
- 3.4.7 Inspect the roof surface for any punctures, especially around exhaust vents and HVAC units. Should any punctures be found, then contact AquaSeal Corporate or your Technical Sales Representative who will recommend an approved AquaSeal applicator for repair work.
- 3.4.8 Keep all gutters free of debris. Make sure that the downspouts are draining properly by water testing them.
- 3.4.9 Trim back any overhanging tree branches.
- 3.4.10 Check all caulking and sealants on flashings and copings. Scrape and remove any caulking that is weather cracked and damaged. Clean the area thoroughly using a wire brush if necessary. Reapply polyurethane caulking such Vulkem, NP-1, or equivalent.
- 3.4.11 Check the mortar on chimneys and parapet walls, both in between the brick and on top. If it is damaged or deteriorating, have it tuck-pointed. Any mason can perform this work.
- 3.4.12 An AquaSeal roof should be cleaned at least once a year (not required) to remove surface debris build-up for improved reflectivity and cool roof benefits. Use a soft bristle wash brush and a mild detergent to remove build-up. Rinse thoroughly to remove detergents. DO NOT POWERWASH.

END

Attachment F: Required Proposal Submission Information

Responders are required to include the following information (except the attachments) in this order directly after the cover letter for proposal submission. Include these items even if they are discussed in more detail in other parts of the proposal.

SECTION A: FINANCIAL STRUCTURE

1. Lease Terms

- a. Lease Rate (Monthly):
- b. Term (years):
- c. Annual Escalator (%):
- d. How will SUBR make PPA payments:
 - a. **Upfront Payments to SUBR for Endowments, Scholarships, Student Aid, and Academic Enhancements (5%) and for Project Development & Management, and Quality Assurance (7.5%):**
 - b. **Recommend any additional means to provide energy savings to SUBR and the estimated value of these savings (provide documentation):**
 - c. List any other charges that would be the responsibility of Southern University:

2. Asset Ownership

- a. Who will retain ultimate ownership of the solar and lighting systems?
- b. If transferring, when and under what terms?

3. O&M plan for roof and solar array: Explain and give examples of your Annual Preventative Maintenance Plan.

SECTION B: TECHNICAL DETAILS

1. Products & Materials Used

- a. **Solar:**
 - 1) Ground Mount
 - Module:
 - Racking:

2) Roof Mount

- Module:
- Racking:
- Inverter:

b. Roofing:

- 1) Product:
- 2) Warranty Term
- 3) Annual Preventative Maintenance Plan (3rd Party)

c. Lighting:

- 1) Products:
- 2) Hour Lifetime

2. Solar System Layout (attach diagrams or files if available):

- a. Layout of each array:
- b. System Size (kW DC) for each array and combined:

3. Annual Energy Savings Estimate:

- a. Estimated Annual kWh Production:
- b. Annual \$ Savings on Energy Bills:
- c. Remaining Energy Bill:

4. Savings Calculation Methodology: Describe the model, assumptions, and any escalation factors.

SECTION C: PROJECT TIMELINE

1. Schedule by Component. List start and end dates as well as detailed milestones for each step of project. Do not combine components below.

- a. Roofing:
- b. Lighting Installation:
- c. Solar Installation:
- d. System Commissioning:

SECTION D: WARRANTIES AND COMPLIANCE

1. SAFE HARBOR STRATEGY (re: OBBB Legislation): Describe your plan to meet safe harbor deadlines and preserve ITC or other incentives.

2. END OF TERM SOLAR PLAN: What are the options at the end of the PPA/lease term? (e.g., buyout, renewal, removal)

3. WARRANTIES

a. Solar Arrays

- 1) Module:
 - 3) Product:
 - 4) Workmanship:
- 2) Racking:
 - Product:
 - Workmanship:
- 3) Inverter:
 - Product:
 - Workmanship:
 - Solution for warranty claims:

b. Roofing

- 1) Product:
- 2) Workmanship:
- 3) Solution for roofs with existing warranties:

c. Lighting (All lamps or fixtures must be DLC certified, and Energy Star approved)

- 1) Product:
- 2) Workmanship:
- 3) Incentives- Explain incentive program and if SUBR will be paid directly or if it is added into the cost of the LED lighting project.
- 4) Warranty Claim Solution:
- 5) Estimated Annual \$ Savings on Energy Bills:

SECTION E: ATTACHMENTS

1. System layout diagrams
2. Product datasheets
3. Insurance certificates
4. Licensing documentation
5. Company profile or brochure