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PROPRIETARY INFORMATION – WITHHOLD UNDER 10 CFR 2.390

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TMI-11-062 April 6, 2011

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555-0001

> Three Mile Island Nuclear Station, Unit 1 Renewed Facility Operating License No. DPR-50 NRC Docket No. 50-289

- Subject: Response to Request for Additional Information Submittal of Relief Request RR-10-02 Concerning the Weld Overlay of the Pressurizer Spray Nozzle to Safe-End and Safe-End to Elbow Dissimilar Metal Welds
- References: 1) Letter from P. B. Cowan (Exelon Generation Company, LLC) to U.S. Nuclear Regulatory Commission, "Submittal of Relief Request RR-10-02 Concerning the Weld Overlay of the Pressurizer Spray Nozzle to Safe-End and Safe-End to Elbow Dissimilar Metal Welds," dated September 30, 2010
 - Letter from P. Bamford (U.S. Nuclear Regulatory Commission) to M. J. Pacilio, "Three Mile Island Nuclear Station, Unit 1 – Request for Additional Information Regarding Relief Request RR-10-02, Weld Overlay of the Pressurizer Spray Nozzle to Safe-End and Safe-End to Elbow Dissimilar Metal Welds (TAC NO. ME4795)," dated February 28, 2011
 - Letter from D. P. Helker (Exelon Generation Company, LLC) to U.S. Nuclear Regulatory Commission, "Response to Request for Additional Information -Submittal of Relief Request RR-10-02 Concerning the Weld Overlay of the Pressurizer Spray Nozzle to Safe-End and Safe-End to Elbow Dissimilar Metal Welds," dated March 9, 2011

In the Reference 1 letter, Exelon Generation Company, LLC (Exelon) requested relief to perform a weld overlay of pressurizer spray nozzle to safe-end and safe-end to elbow dissimilar metal welds at Three Mile Island Nuclear Station (TMI), Unit 1. In the Reference 2 letter, the U.S. Nuclear Regulatory Commission requested additional information. Reference 3 contained our response to questions 2, 3 and 4. As discussed in Reference 2, the response to question 1 would be provided by April 28, 2011.

Attachment 4 transmitted herewith contains Proprietary Information. When separated from attachments, this document is decontrolled. Response to Request for Additional Information Relief Request RR-10-02 Concerning the Weld Overlay of Dissimilar Metal Welds April 6, 2011 Page 2

Attachment 1 is our response to question 1. Attachments 2 and 3 contain copies of Calculation No. 1000320.315, Revision 0 and Calculation No. 1000320.316, Revision 0, respectively. Attachment 4 contains information proprietary to AREVA NP Inc. (AREVA) and Structural Integrity Associates (SI), Inc. AREVA and SI request that Calculation No. 1000320.310, Revision 0 and Calculation No. 1000320.314, Revision 0 be withheld from public disclosure in accordance with 10 CFR 2.390(b)(4). Attachment 5 contains non-proprietary versions of these two calculations (i.e., Calculations 1000320.310, Revision 0 and Calculation 1000320.314, Revision 0).

There are no regulatory commitments contained in this submittal.

If you have any questions concerning this letter, please contact Tom Loomis at (610) 765-5510.

Respectfully,

9. C. Helper

David P. Helker Manager - Licensing & Regulatory Affairs Exelon Generation Company, LLC

- Attachments: 1) Response to Request for Additional Information Submittal of Relief Request RR-10-02 Concerning the Weld Overlay of the Pressurizer Spray Nozzle to Safe-End and Safe-End to Elbow Dissimilar Metal Welds
 - 2) Calculation No. 1000320.315
 - 3) Calculation No. 1000320.316
 - 4) Proprietary Version Calculation No. 1000320.310 and Calculation No. 1000320.314
 - 5) Non-Proprietary Version Calculation No. 1000320.310 and Calculation No. 1000320.314
 - 6) Affidavits
- cc: Regional Administrator, Region I, USNRC USNRC Senior Resident Inspector, TMI USNRC Project Manager, [TMI] USNRC

ATTACHMENT 1

Response to Request for Additional Information - Submittal of Relief Request RR-10-02 Concerning the Weld Overlay of the Pressurizer Spray Nozzle to Safe-End and Safe-End to Elbow Dissimilar Metal Welds

Attachment 1 Response to Request for Additional Information Relief Request RR-10-02 Concerning the Weld Overlay of Dissimilar Metal Welds Page 1 of 1

Question:

1. Section 5 of relief request (RR)-10-02 (page 4, third paragraph) states that the overlay design is currently in development. Please submit the weld overlay design information, including analyses, to demonstrate that the weld overlay design will mitigate the potential for primary water stress-corrosion cracking in the Alloy 82/182 dissimilar metal welds.

Response:

The following calculations are attached:

- 1. Calculation No. 1000320.315, "ASME Code, Section III Qualification of Pressurizer Spray Nozzle with Weld Overlay Repair," Revision 0 (Attachment 2)
- 2. Calculation No. 1000320.316, "Crack Growth Evaluation of Pressurizer Spray Nozzle with Weld Overlay," Revision 0 (Attachment 3)
- 3. Calculation No. 1000320.310, "Pressurizer Spray Nozzle Weld Overlay Sizing Calculation," Revision 0 (Attachment 4 – Proprietary Version, Attachment 5 – Non-Proprietary Version)
- Calculation No. 1000320.314, "Residual Stress Analysis of Pressurizer Spray Nozzle with Weld Overlay Repair," Revision 0 (Attachment 4 – Proprietary Version, Attachment 5 – Non-Proprietary Version)

ATTACHMENT 2

Calculation No. 1000320.315

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CLIENT: Welding Se	ervices, Inc. (WSI)		PLANT: Three Mi	le Island Nuclear Genera	ating Station, Unit 1
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Document Revision	Affected Pages	Revision Description		Project Manager Approval Signature & Date	Preparer(s) & Checker(s) Signatures & Date
0	1 - 27 A-1 - A-2 B-1 - B-18 Computer Files	Initial Issue		Norman Eng NE 03/21/11	Aparna Alleshwaram AA 03/21/11 Charles Fourcade Charles Fourcade CJF 03/21/11

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1.0 OBJECTIVE

The objective of this calculation package is to determine if the ASME Code, Section III design requirements are satisfied for a weld overlay repair of the pressurizer spray nozzle-to-safe end dissimilar metal weld (DMW1) and the safe end-to-elbow dissimilar metal weld (DMW2) with weld overlay repair at Three Mile Island Nuclear Generating Station, Unit 1 (TMI-1). A design drawing of the weld overlay repair is provided in Reference 1.

Two finite element models used to determine structural and thermal operational stresses are developed in Reference 2. The two finite element models are constructed as 3-dimensional (3-D) "half-symmetry" (180 degrees) models. One of the 3-D models is constructed with the maximum weld overlay dimensions; whereas the other is constructed using minimum weld overlay dimensions. The model with the minimum overlay dimension is used for mechanical load evaluations. The model with the maximum overlay dimension is used for thermal stress evaluations. Further discussion of these finite element models can be found in Reference 2.

Several finite element stress and thermal analyses have been performed [3] to support the ASME Code evaluations. These analyses, together with the design requirements of the ASME Code [4], are used to determine the adequacy of the repair.

2.0 DESIGN CRITERIA

The weld overlay repair is designed to the requirements of the ASME Code, Section III, for Class 1 components. Thus, the rules of Article NB-3000 of Section III of the ASME Code, 2004 Edition [4] are used.

The weld overlay repair region affects the pressurizer spray nozzle, the safe end, and the attached spray piping. As a result, the nozzle portion of the repair at the pressurizer end will be evaluated using the rules of Subarticle NB-3200 of the ASME Code. For the attached safe end and piping, guidance from the rules of Subarticle NB-3600 of the ASME Code will be taken to satisfy NB-3200 acceptance criteria.

3.0 LOADS

This evaluation only considers Service Level A and Service Level B operating conditions in regards to meeting ASME Code, Section III Service Level A/B allowables and fatigue. As such, thermal stresses resulting from Service Level C and Service Level D thermal transients are not considered [4, NB-3224.4 and Appendix F-1310 (c)].

Primary stresses (such as mechanical loads due to deadweight, and seismic effects) resulting from Service Levels A, B, C and D operating conditions were previously evaluated in Reference 7, and are discussed in Section 4.0.



Pressure

Per Table 9 of Reference 6, the operating pressure loads range from 15 psia (0 psig) to 2,807 psia (2,792 psig) throughout the various thermal transients, whose temperatures range from 70° F to 682° F. The Hydro Test pressure ranges from 15 psia (0 psig) to 3,140 psia (3,125 psig) and the corresponding temperatures are 70° F. The pressures for various transients are summarized in Table 2. The gauge pressure (psig) is used in all calculations.

Thermal Transients

Based on Table 9 of Reference 6, six bounding thermal transients (Plant Heatup (1A), Plant Cooldown (1B), Step Load Reduction/ Reactor Trip Due to High Reactor Pressure/ Rod Withdrawal Accident (7/8C/11), Reactor Trip with Loss of Flow/Loss of Station Power (8A/15), Reactor Trip Due to High Reactor Temperature (8B), Rapid Depressurization (9)), Stratification Moment, and one test condition (Hydro Test) are considered. These thermal transients were evaluated in Reference 3. Details of the various transients are shown in Table 2.

The number of cycles shown in Table 2 are for the 60-year design operating period [6] for which the repair configuration will be evaluated.

Details of the thermal stress analyses are provided in Reference 3.

Mechanical Piping Loads

The pressurizer spray nozzle is subjected to mechanical piping loads. These are defined in Table 3 of Reference 6. See Table 3 in this calculation for details. Note that Table 3 of Reference 6 also shows piping loads for the deadweight condition. However, deadweight loads are constant loads which occur for all load conditions. Therefore, deadweight loads do not contribute to the stress ranges for Service Levels A and B load combinations and fatigue evaluations (per NB-3222.2 and NB-3222.4 (for vessels) and NB-3653.1, NB-3653.2, and NB-3653.5 (for piping)) and are excluded for those evaluations.

4.0 LOAD COMBINATIONS

The load combinations used in the repair design are:

- 1. Level A Load Combination
- 2. Level B Load Combination
- 3. Level C Load Combination
- 4. Level D Load Combination
- 5. Test Load Combination

The weld overlay sizing evaluation [7] considered general primary membrane, P_m , and primary membrane-plus-bending, P_m+P_b , stress intensities resulting from Service Levels A and B operating



conditions and Service Levels C and D conditions. The local primary membrane, P_L , stress intensities are not specifically evaluated because the acceptability of P_m and P_L+P_b stress intensities indicate that P_L stress intensities will be equally acceptable (local stress effects due to the WOL are expected to be minimal).

The sizing calculation does not specifically evaluate loads resulting from the Test Load Combination (Hydro Test). However, the Test Load Combination considers only primary stresses, which only result from pressure and mechanical loads. The added thickness of the weld overlay will only serve to reduce the general primary membrane, P_m , and primary membrane-plus-bending, P_L+P_b , stress intensities (and as previously indicated, local primary membrane, P_L , stress intensity) when compared to the original configuration. Therefore, the only stress category needed to be evaluated for stress acceptance is P_L+P_b+Q criteria for all load combinations for Service Levels A and B. The specific load combinations are shown in Table 4. The allowable stress intensities for the primary + secondary stress category for these load combinations are shown in Table 5 [4]. Also, as indicated in Table 5, for Service Levels A and B, peak stresses and cyclic operation criterion must also be met.

Thus, this calculation, together with Reference 7, contains the ASME Code qualification for the weld overlay repair.

It should be noted that in using the ASME Code, Section III, Class 1 rules in NB-3200 (and NB-3600 rules for piping) [4], the bounding load combinations are used for evaluation of Service Levels A/B.

5.0 ASME CODE STRESS LIMITS EVALUATION

Stress intensities are calculated for the various load combinations shown in Table 4 and compared to the allowable limits shown in Table 5. Linearized through-wall stresses are extracted through nine paths (Paths 1 through 9; see Figures 1 and 2) throughout the transient time histories and from the pressure and mechanical load analyses [3]. These calculated stress intensities are evaluated in accordance with ASME Code, Section III, Subarticle NB-3200 [4] for Paths 1, 4, and 7, with guidance from Subarticle NB-3600 [4] for Paths 2, 3, 5, 6, 8 and 9.

Selection of the nine indicated paths was based on re-qualifying the components impacted by the repair. For this nozzle, the components in question are the spray nozzle, the safe end, and a portion of the spray piping. For the nozzle and piping, the critical locations are at the extreme ends of the weld overlay repair. Both locations, as a result of the repair, now have discontinuities, which impact the primary-plus-secondary-plus-peak stresses, and the corresponding fatigue usage. In addition, the pipe location will see the greatest impact in primary-plus-secondary stress ranges due to the thickness change resulting from the overlay and its impact on the thermal stresses per NB-3653.1.

The safe end was also selected as a separate component, though strictly speaking, the safe end is also a piping component per NB-1131(a). However, the safe end tends to have the greatest overlay thickness, which impacts the thermal secondary stresses, and is fabricated from a material weaker than the adjacent nozzle. In order to guarantee ASME Code compliance, the safe end was therefore included.

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5.1 Service Level A/B Load Combination

Examination of the membrane-plus-bending stresses from Reference 3 does not provide an obvious pairing of stresses resulting from the various thermal transients for determination of the worst operating ranges. Thus, the VESLFAT program [8], developed by Structural Integrity, is used to calculate primary-plus-secondary membrane-plus-bending (P+Q) and total (P+Q+F) stress intensity ranges. The same program is used to perform the fatigue usage analysis described in Section 6.0.

The VESLFAT program computes stress intensity ranges based on component stress differences for all event pairs per NB-3216.2. It evaluates the stress ranges for primary-plus-secondary and primary-plus-secondary-plus-peak based on six component stresses (3 direct and 3 shear stresses). When more than one load set is defined for either of the event pair loading, the stress differences are determined for all of the potential loads, saving the maximum for the event pair. The principal stresses for the stress differences are determined by solving for the roots of the cubic stress equation per NB-3215.

The primary-plus-secondary membrane-plus-bending (P+Q) and total (P+Q+F) component stress values for thermal, pressure, and mechanical loads are combined prior to use in the VESLFAT program. The thermal component stresses resulting at each time increment from the various thermal transients are added to the component stresses resulting from corresponding pressure, and to the component stresses resulting from mechanical loading. The combination is performed in a series of Excel spreadsheets (file names are listed in Appendix A). Within the spreadsheet, the various component results are manipulated to produce the combined transient stress conditions, including:

- The primary-plus-secondary membrane-plus-bending (P+Q) and total (P+Q+F) stress components due to pressure are scaled from the 1,000 psi unit pressure evaluation performed in Reference 3. The actual pressure at specific time points for a given transient is defined in Reference 6 and shown in Table 2 of this calculation. The pressure between any two specified time points is assumed to vary linearly throughout each of the thermal transients.
- The primary-plus-secondary membrane-plus-bending (P+Q) and total (P+Q+F) stress components due to mechanical force and moment loads (resulting from thermal expansion) are calculated using the component stress results for a unit axial force (1,000 lb) and a unit moment (1,000 in-lb) developed in Reference 3.
 - Per Subparagraph NB-3653.1 [4], piping force components (axial and shear) need not be included in the stress range determination and are, therefore, excluded for Paths 2, 3, 5, 6, 8, and 9 (safe end and piping).
 - Equation 10 of Subparagraph NB-3653.1 provides a closed form solution to determine stress intensity range contributions for pressure and mechanical loads for Paths 2, 3, 5, 6, 8, and 9. However, this closed form solution is not used; rather, the actual stresses resulting from the finite element evaluations [3] are used.



- Per Reference 6, Section 4.3, the thermal expansion loads are applicable for a base fluid temperature of 555°F, and are scaled to other temperatures using a thermal load factor calculated as $(T_{fluid}$ -70)/(555-70), where T_{fluid} is the spray fluid temperature (T_{spray}) in °F as listed in Table 2.
- All forces related to piping mechanical loads are evaluated in the same manner for each event. The component forces are added together where appropriate and the resulting forces are then combined by SRSS to create a single bounding force load.
- All moments related to piping mechanical loads are evaluated in the same manner for each event. The component moments are added together where appropriate and the resulting moments are then combined by SRSS to create a single bounding moment load.
- Because it is not obvious which direction of applied moment loading produces the worst stress range, the evaluation considers both positive (Base case) and negative (Reverse case) loading directions for the thermal expansion loads and seismic loads in order to determine the worst range.
- The thermal stratification loads are treated as separate event as shown in Table 8 with 7200 cycles. Depending on the resultant stresses, OBE is applied to this event as shown in Table 1.
- The OBE piping loads are defined in Section 3.0 of Reference 6 as having a total of 660 cycles. Therefore 660 cycles of OBE loading are applied to the thermal range loads with no self cycling. The OBE loads are added to the piping loads to one of the thermal transient pair events that produce the highest stress intensity range, as determined on a per path basis. The transient load pairs on which OBE is being applied are shown in Table 1.
- Full range OBE is used for all paths to calculate the stress intensity range. Whereas half range OBE is considered while calculating fatigue.

Cyclic information, as well as material property data, are also needed to complete the VESLFAT input, though they do not play a direct role in the determination of membrane-plus-bending stress intensity ranges. This data is needed to support the fatigue evaluations, and is discussed in detail in Section 6.0.

Table 6 presents the evaluation of the primary-plus-secondary stress intensity ranges for Service Level A/B operating conditions. The stress ranges extracted from VESLFAT files, with the extension *.FAT, are the stress intensity ranges that produce the greatest ratio of stress intensity range versus allowable stress.

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5.1.1 Simplified Elastic-Plastic Analysis

Paths 6 (outside) and 9 (outside) have stress intensity ranges which exceed the allowable stress intensity range. A simplified elastic-plastic analysis is conducted per Subparagraph NB-3653.6 [4], since the $3S_m$ limit is exceeded.

• NB-3653.6, Part (a), requires that "Equation (12) shall be met." Equation (12) is defined as:

$$S_e = C_2 \frac{D_o}{2I} M_i^* \le 3S_m$$

In Equation (12), M_i^* is identified as the moment range that includes only the thermal expansion. The largest thermal moment range is 173,263 in-lbs at a fluid temperature range of 70°F to 636°F (extracted from Excel Spreadsheet "*SectionIII_v120-TMI-SPRAY-no-obe.xls*" tab "Eq-12") for Path 6 Outside. The largest thermal moment range for Path 9 outside is 7604 in-lbs at a fluid temperature range of 70°F to 636°F. These values are used to calculate the membrane-plusbending stress intensity results from the 1,000 in-lb unit moment results in Reference 3. For Path 6 outside, the unit out-of-plane moment results are used, since stratification is present. According to the isometric drawing in Figure 4 for spray piping, it can be seen that the Stratification is being applied in the Out-of-plane direction on the nozzle. The resulting stress intensities are shown in Table 7 with comparison to the allowable values.

• NB-3653.6, Part (b), requires that "primary plus secondary membrane plus bending stress intensity, excluding thermal bending and thermal expansion stresses, shall be $< 3S_m$."

Equation (13) of NB-3653.6, Part (b) is essentially identical to Equation (10) of NB-3653.1. To bound the various load combinations, the membrane-plus-bending stress intensities for the worst thermal transient pressure (2792 psig for the 7/8C/11 transient) were conservatively added to the maximum membrane stress intensity range that occurs for any two thermal transients (for Equation (13), the thermal piping moment loads are excluded). The results are listed in Table 7.

5.2 Thermal Ratcheting

The thermal stress ratchet is required to be evaluated to prevent cyclic growth in the component. The thermal stress ratchet effect is driven by internal pressure, as the component is subject to cyclic thermal stress. Paths 3, 6, 9 at the attached pipe location, are not protected by a thermal sleeve and have the thinnest cross-section, which produces the most conservative ΔT_1 allowable. These paths are selected for thermal ratcheting evaluation per Subparagraph NB-3653.7 [4]. Therefore, the limiting range of through-wall temperature gradient is calculated as:

$$x = \frac{P \cdot D_o}{2 \cdot t} \left(\frac{1}{Sy}\right) = \frac{2792 \cdot 4.5}{2 \cdot 0.438} \left(\frac{1}{29869}\right) = 0.48$$
 (bounding Path 3)



where,

- P = Maximum pressure for the set of conditions under consideration= 2,792 psig (see Table 2)
- D_{o} = Outside diameter, 4.5 inches for the pressurizer spray pipe [2].
- t = Wall thickness, 0.438 inches for the pressurizer spray pipe [2].
- $S_y = Per Note 11 of Subparagraph NB-3222.5, 1.5S_m can be substituted for S_y, if greater. The value of 1.5S_m is 29,869 psi [5] for SA-403, WP 316 (Path 3) at an average fluid temperature of 313°F.* (Note: * The pair with the maximum <math>\Delta T_1$ range is the Plant Heatup transient. The average fluid temperature is 313°F (i.e., (555+70)/2). 313°F is used to calculate the value of 1.5S_m)

Therefore, the limiting range of ΔT_1 can be calculated as:

$$\Delta T_1 \le \frac{y' S_y}{0.7 \cdot E\alpha} (C_4) = \frac{2.08 \cdot 29869}{0.7 \cdot 28.3 \cdot 8.5} (1.3) = 479.65^{\circ} F \text{ (bounding Path 3)}$$

where,

- y' = 2.08 (Per NB-3222.5 [4]; y' = 1/x = 2.08, for x = 0.48).
- $C_4 = 1.3$ for stainless steel material
- E = Modulus of elasticity, 28.3e6 psi, for SA-403, WP 316 at room temperature [5].
- α = Mean coefficient of thermal expansion, 8.5e-6 in/in/°F, for SA-403, WP 316 at room temperature [5].

The inside and outside surface temperatures are extracted from the thermal transients evaluated in Reference 3. The through-wall temperature difference (ΔT) is calculated for each time point of the transients. The maximum positive through-wall ΔT is subtracted from the minimum through-wall ΔT for the two limiting transients, and the resulting range conservatively considered the ΔT_1 range (see Excel Spreadsheet "*SectionIII_v120-TMI-SPRAY-no-obe.xls* ", Tab "ThermalRatchet"). ΔT_1 is defined in Subparagraph NB-3653.2 as the range of the temperature difference between the temperature of the outside surface and the temperature of the inside surface assuming moment generating equivalent linear temperature distribution. The maximum ΔT for Paths 1 through 9 is 112°F, which is below the allowable temperature range of 480°F. Therefore, the thermal ratcheting criterion is met for all paths.

6.0 FATIGUE EVALUATION

The fatigue evaluations are performed for Paths 1 through 9 for the weld overlay repair (see Figures 1 and 2). Both the inside and outside locations of the indicated paths are evaluated. The evaluations are performed in accordance with ASME Code, Section III, Subparagraph NB-3222.4(e) [4] (with guidance from NB-3600), using the Structural Integrity developed VESLFAT program [8].



6.1 VESLFAT Program

The VESLFAT program requires three input files. The first is the *.CYC file, which includes the number of cycles for each load combination. The data used in the *.CYC file is discussed in detail in Section 6.1.1. The second file is the *.FDT file, which includes the fatigue curve data, appropriate temperature dependent material properties, and simplified elastic-plastic limits and factors. These values are discussed in Section 6.1.2. The final input file is the *.STR file, which contains the component membrane-plus-bending and membrane-plus-bending-plus-peak (i.e., total) stresses for the various load conditions to be evaluated. Additional details are provided in Section 6.1.3. As several load conditions occur within each load case, these load conditions will be identified by a number, which matches the load condition to the load case. This number is defined in the *.CYC file. Each of these three files must be identically named, with the exception of the file extension.

A number of intermediate files are generated, which can be used to check the final results. The *.ST1 file is an echo output of the *.STR file but includes transformations to output the results in terms of psi. The *.ALL file reflects all of the stress range pairs that are calculated. The *.PR file is a shortened version of the *.ALL file and lists only the significant (i.e., fatigue causing) pairs. The *.ORD file resequences the *.PR file such that the ordered pairs are arrayed in order of reducing alternating stress.

The actual final output file is labeled *.FAT. It echoes the input data, shows the significant cycle pairings, the cycle elimination, individual cycle pair fatigue contributions, and the final overall fatigue usage. See Section 6.1.4 for fatigue results.

6.1.1 Cyclic Data (*.CYC)

Reference 6 assigned a total number of cycles for each bounding event, which are tabulated in Table 8 of this calculation. See Appendix B for an example of a *.CYC file.

6.1.2 Fatigue Data Input File (*.FDT)

The materials at the surfaces of the stress paths indicated in Figures 1 and 2 are tabulated in Table 9.

The fatigue curve for the stainless steel and Alloy 52M components is per Reference 4, Section III Appendices, Table I-9.2.

The fatigue curve for the SA-508 Class 1 material is also per Reference 4, Section III, Appendices, Table I-9.1.

The modulus of elasticity correction factor from the fatigue curves are based on Reference 5 temperature dependent modulus of elasticity values with a fatigue curve elastic modulus of 28.3e6 psi for the austenitic and Alloy 52M materials, and 30.0e6 psi for the SA-508 Class 1 material.

See Appendix B for an example *.FDT file.



6.1.3 Stress Data Input File (*.STR)

Linearized membrane-plus-bending (P+Q) and membrane-plus-bending-plus-peak (P+Q+F) component stresses from the finite element stress analyses [3] were extracted for pressure, mechanical, and thermal transient loads. Stresses are scaled in cases (pressure and mechanical) where the applied load magnitude is not the same as that analyzed.

The resulting component stresses are then added to create the load combination for each thermal transient throughout the length of the event. Thus, thermal stresses are added to the scaled pressure stresses and to the scaled mechanical load stresses to create each membrane-plus-bending and membrane-plus-bending-plus-peak component stress entry.

Paths 1, 4, 7, 3, 6, and 9 terminate on the outside at locations with geometric discontinuities. For these locations, the magnitude of the P+Q+F stress is determined by applying a fatigue strength reduction factor to the P+Q stress obtained from the finite element analysis (Reference 3). This is allowed per NB-3222.4(e)(2) [4] which allows for the use of theoretical techniques for the determination of a stress concentration factor. For only the inside locations (in contact with the fluid) with a fatigue strength reduction factor, the peak thermal stress components are added back into the total stress to capture the peak stress due to non-linear temperature gradients. The use of the fatigue strength reduction factor is shown as follows.

P+Q+F = (ANSYS membrane + bending)*FSRF + ANSYS thermal peak (Inside Locations)P+Q+F = (ANSYS membrane + bending)*FSRF (Outside Locations)

For those paths that do not occur at a geometric discontinuity, no fatigue strength reduction factor is used. Instead, the membrane-plus-bending-plus-peak (P+Q+F) component stresses from the finite element stress analyses [3] will be used directly.

Similarly, a fatigue strength reduction factor is applied to Paths 2, 5 and 8, inside which are located at areas of tapered transition. Note that Paths 2 and 5 are located at areas of tapered transition on the outside surface for the maximum weld overlay case only.

Fatigue strength reduction factors as shown in the following table are calculated and applied to the affected path locations as detailed in Section 6.2 of Reference 9. A pictorial representation of the tapered transition section is provided in Figure 3.

The fatigue stress reduction factor is calculated as follows:

Fatigue Stress Reduction Factor =
$$\frac{2 \tan \alpha}{\left(\alpha + \frac{1}{2} \sin 2\alpha\right)}$$

where α is the tapered transition angle in radian.

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Path No.	Surface	Tapered transition angle (α) in degrees	Fatigue Strength Reduction Factor
1	Inside	0	1.00
1	Outside	30	1.21
2	Inside	18.4	1.07
2	Outside	18.5	1.07
3	Inside	0	1.00
3	Outside	24.7	1.13
4	Inside	0	1.00
4	Outside	30	1.21
5	Inside	18.4	1.07
5	Outside	14	1.04
C	Inside	0	1.00
6	Outside	29.8	1.20
7	Inside	0	1.00
/	Outside	30	1.21
8	Inside	18.44	1.07
δ	Outside	0	1.00
9	Inside	0	1.00
9	Outside	49.1	1.41

The *.STR file includes the temperature of the location as it varies throughout the events and the pressure. The pressures vary as indicated in Table 2. The temperature at the stress path location is based on the actual metal temperature of the material rather than the fluid temperature. These metal temperatures were extracted from the prior stress evaluations in Reference 3 via the linearized stress results files which include the temperature data in the last field under "Total" stress.

Because it is not obvious as to which direction of applied force and moment loading produces the worst stress ranges, the fatigue evaluations will be considered in both positive (Base Case) and negative (Reverse Case) mechanical load directions, in order to capture the worst ranges and, therefore, the greatest fatigue usage.

The load combinations and the development of the *.STR file entries were performed in Excel spreadsheets named which are listed in Appendix A.

An example of the *.STR file is shown in Appendix B.



6.1.4 Fatigue Usage (*.FAT)

The fatigue evaluation automatically selects the load pairs that create the greatest stress intensity range, performs a K_e calculation, corrects for the modulus of elasticity, and performs the fatigue evaluation. It repeats this process selecting the next highest stress range until the available cycles are used up or the remaining stress ranges fall below the endurance limit. An example *.FAT file is included in Appendix B. The intermediate solution files *.ST1, *.ALL, *.PR, and *.ORD are included with computer files.

Table 10 tabulates the total fatigue usage for each location. In addition, the table includes information on the load pairing which produces the greatest alternating stress for each location, including the membrane-plus-bending stress intensity range, the calculated K_e elastic-plastic factor, and the alternating stress, S_a , for the specific load pair.

7.0 CONCLUSIONS

An evaluation of the pressurizer spray nozzle weld overlay repairs for the Three Mile Island Nuclear Generating Station, Unit 1 (TMI-1) has been performed in accordance with the requirements the ASME Boiler and Pressure Vessel Code, Section III, for Class 1 components [4]. Stress intensities were conservatively determined for pressure, piping loads and bounding thermal transients provided in Reference 6, and compared to ASME Code allowable values for primary-plus-secondary stress effects. In all cases, except for Path 6 outside and Path 9 outside, the reported values of stress intensity ranges are less than their corresponding allowable values (see Table 6). A simplified elastic-plastic analysis is conducted on Paths 6 outside and 9 outside, per Subparagraph NB-3653.6 [4], since the $3S_m$ limit is exceeded. The resulting stress intensities are shown in Table 7 with comparison to the allowable values and it can be seen that the stress intensity values are less than their corresponding allowable values are less than their corresponding stress intensities are shown in Table 7 with comparison to the allowable values.

A detailed fatigue analysis was also performed. For the given number of expected cycles (see Table 8), the total usage at all locations are less than the allowable of 1.0 (see Table 10).

In conclusion, the pressurizer spray nozzle weld overlay repair design shown on the design drawing [1] satisfies the requirements of the ASME Code, and is qualified for the 60 years of cyclic operation.

Structural Integrity Associates, Inc.*

8.0 **REFERENCES**

- 1. SI Drawing No. 1000320.510 "Pressurizer Spray Nozzle Full Structural (FSWOL) Weld Overlay Design Drawing," (for revision number refer to SI Project Revision Log, latest revision).
- 2. SI Calculation No. 1000320.312, "Material Properties and Finite Element Models for Pressurizer Spray Nozzle with Weld Overlay Repair," (for revision number refer to SI Project Revision Log, latest revision).
- 3. SI Calculation No. 1000320.313, "Pressurizer Spray Nozzle Thermal and Mechanical Stress Analysis Calculation," (for revision number refer to SI Project Revision Log, latest revision).
- 4. ASME Boiler and Pressure Vessel Code, Section III, Rules for Construction of Nuclear Facility Components, 2004 Edition.
- 5. ASME Boiler and Pressure Vessel Code, Section II, Part D, Material Properties, 2004 Edition.
- 6. SI Calculation No. 1000320.311, "Design Loads for Pressurizer Spray Nozzle with Weld Overlay Repair," (for revision number refer to SI Project Revision Log, latest revision).
- 7. SI Calculation No. 1000320.310, "Pressurizer Spray Nozzle Weld Overlay Sizing Calculation," (for revision number refer to SI Project Revision Log, latest revision).
- 8. VESLFAT, Version 1.42, Structural Integrity Associates, Inc., February 6, 2007.
- 9. J. F. Harvey, "Theory and Design of Modern Pressure Vessels," 2nd Edition, Van Nostrand Reinhold Company, 1974.
- 10. GPU Nuclear Drawing No. ID-212-23-028, Sheet 2 of 6, Rev. 1, "LPSI/DECAY HEAT REMOVAL PIPING ANALYSIS," SI File Number 1000320.204.

T	Primary-Plu	us-Secondary	Fati	gue
Location	Base	Reverse	Base	Reverse
Path 1 Inside	10	6	10	10
Path 1 Outside	6	2	6	6
Path 2 Inside	9	9	9	9
Path 2 Outside	3	6	3	6
Path 3 Inside	10	6	10	6
Path 3 Outside	6	3	6	3
Path 4 Inside	10	9	10	10
Path 4 Outside	9	2	9	6
Path 5 Inside	9	9	6	6
Path 5 Outside	9	9	9	9
Path 6 Inside	6	10	10	6
Path 6 Outside	9	9	9	9
Path 7 Inside	8	10	10	10
Path 7 Outside	2	6	6	6
Path 8 Inside	9	1	6	3
Path 8 Outside	3	6	3	6
Path 9 Inside	9	9	9	9
Path 9 Outside	3	6	3	6

Table 1: Transient Load Pairs that Consider OBE

Note:

1) The event ID # is identified in Table 8.

				h, Bti Under	u/hr-ft ² -°F	р) spray?			
Transient	Time, sec	T _{PZR} , °F	T _{sprav} , °F	TS ⁽³⁾	Elsewhere ⁽⁴⁾	psig	Cycles	Factor		
1A	<u>1 mie, sec</u> 0	70	70	173	1378	0 0	<u>240</u>	N/A		
17.	10800	370	370	173	1378	159	2.10	1.000		
	10800	370	70	22	21	216		1.000		
	12240	410	110	26	26	319		0.082		
	12240	410	110	141	427	319		0.082		
	27432	650	532	160	739	2242		0.953		
	27432	650	532	183	2149	2242		0.953		
	28092	650	555	182	2123	2242		1.000		
1B	0	650	555	179	1663	2242	240	1.000		
1 D	10800	430	300	177	1540	216	240	0.474		
	21600	400	280	177	1484	216		0.433		
	21600	400	210	152	578	159		0.289		
	25920	330	150	147	494	15		0.165		
	36000	200	125	141	427	0		0.103		
7/8C/11	0	650	544	41	44	2242	65938	0.977		
(bounds	0	650	566	182	2111	2242	05750	1.023		
2A, 3, 4,	4	682	586	182	2088	2792		1.064		
6, 7, 8C,	12	682	590	182	2088	2792		1.072		
10, 11,	144	682	590	182	2084	2792		1.072		
14, and	144	639	575	182	2101	2092		1.041		
20B)	192	633	562	182	2116	1997		1.014		
200)	282	625	546	183	2134	1897		0.981		
	372	616	540	183	2140	1777		0.969		
8A/15	0	650	555	182	2123	2242	80	1.000		
0/0/15	8	662	570	174	1261	2442	00	1.031		
	12	662	570	174	1261	2442		1.031		
	20	650	555	164	844	2242		1.000		
	30	632	550	154	612	1992		0.990		
	720	643	550	154	612	1992		0.990		
	720	643	636	173	1405	2142		1.167		
	120	643	636	173	1405	2142		1.167		
8B	0	650	544	183	2136	2242	180	0.977		
(also	1	651	544	183	2136	2260	100	0.977		
bounds	4	654	562	182	2116	2312		1.014		
17A)	6	657	564	182	2113	2348		1.011		
172()	10	661	560	182	2113	2419		1.010		
	15	666	576	182	2110	2507		1.043		
	22	653	568	182	2100	2297		1.045		
	22	653	568	41	44	2297		1.027		
	600	616	558	41	44	1757		1.006		
	612	616	535	41	45	1757		0.959		
9	012	650	580	182	2006	2242	1480	1.052		
also	900	519	500	182	2003	842	1700	0.887		
bounds 2B)	1200	515	490	182	2093	822		0.866		
12	1200		70	104	<u> </u>	0	20	0.800 N/A		
1 4			70			3125	20	N/A		

Table 2: Bounding Transients for Analysis

Notes: (1) Table is reproduced from Table 1 of Reference 3.

(2) Temperatures are assumed to vary linearly with time between indicated time points.

(3) At the region covered by the thermal sleeve.

(4) At all regions, including pressurizer shell, except thermal sleeve.

Table 3: Bounding Piping Interface Loads

	Forces, lb Mome			oments, lb-	ients, lb-in	
Fx	Fy	Fz	Mx	My	Mz	
3	14	13	252	1222	781	
422	629	493	10932	20102	15723	
6	4	11	6468	704	348	
			Range	e = 173,263	lb-in	
	3 422	Fx Fy 3 14 422 629	Fx Fy Fz 3 14 13 422 629 493	Fx Fy Fz Mx 3 14 13 252 422 629 493 10932 6 4 11 6468	Fx Fy Fz Mx My 3 14 13 252 1222 422 629 493 10932 20102	

(1) The above table is reproduced from Table 3 of Reference 6.

(1) The Stratification occurs at 555°F and at a pressure of 2242 psig [6].

LOADS	Load Co	mbinations
LUADS	Note 1NoteNote 2NoteXXXXXXXXXXXXXXXXXXXXXX	Level B
Pressure	Note 1	Note 1
Temperature	Note 2	Note 2
Mechanical Piping Loads	X	X
Thermal Transients		
Plant Heatup	X	
Plant Cooldown	X	
Step Load Reduction/ Reactor Trip Due to High Reactor Pressure/ Rod Withdrawal Accident		X
Reactor Trip with Loss of Flow/Loss of Station Power		X
Reactor Trip Due to High Reactor Temperature		Х
Rapid Depressurization		X
Stratification Moment	X	
Hydro test	Note 3	Note 3

Table 4: Load Combinations

Notes:

1. Varies between 15 psia and 3140 psia depending on transient conditions [6], summarized in Table 2.

Varies between 70°F and 682°F depending on transient conditions [6], summarized in Table 2. 2.

Hydro Test pressure varies between 15 psia and 3140 psia. Hydro test is covered under NB 3226, but 3. included here conservatively.

Load Combination	P _m	PL	$P_L + P_b$	$P_L + P_b + Q$	Note
Level A/B	(3)	(3)	(3)	3.0 S _m	1

Table 5: Allowable Stress Intensities

Notes:

1. The requirements of ASME Code, Section III, Subparagraph NB-3222.4(e) [4] (and NB-3653.5 for piping) for peak stresses and cyclic operation must be met.

2. P_e is not specifically listed and is included with Q. P_e is defined in Figure NB-3222-1 [4] as stresses which result from the constraint of free end displacement. The piping loads provided in Reference 6 do not specifically detail the source of the loading (thermal expansion or thermal anchor movements for the thermal loads). Therefore, the loads are all classified as secondary, Q.

3. Not evaluated as explained in Section 4.0.

Path Number ⁽⁷⁾	Surface	Maximum Stress Intensity Range (S _n) (psi) – Base ⁽⁸⁾⁽¹⁰⁾	Maximum Stress Intensity Range (S _n) (psi) – Reverse ⁽⁹⁾⁽¹⁰⁾	Allowable 3S _m (psi) ⁽⁶⁾⁽¹¹⁾	Accept
1	Inside ⁽¹⁾	17502	17838	49066	Yes
1	Outside ⁽²⁾	20145	19443	53872	Yes
2	Inside ⁽³⁾	19256	19028	69900	Yes
2	Outside ⁽⁴⁾	20935	21278	69900	Yes
3	Inside ⁽⁵⁾	33832	34953	50614	Yes
3	Outside ⁽⁵⁾	36914	35839	51618	Yes
4	Inside ⁽¹⁾	17213	17937	49066	Yes
4	Outside ⁽²⁾	26722	19613	53872	Yes
5	Inside ⁽³⁾	23697	21822	69900	Yes
5	Outside ⁽⁴⁾	21225	24480	69900	Yes
6	Inside ⁽⁵⁾	32143	31601	50407	Yes
0	Outside ⁽⁵⁾	77277	67004	51642	No
7	Inside ⁽¹⁾	16896	16751	49066	Yes
/	Outside ⁽²⁾	19662	20334	53872	Yes
8	Inside ⁽³⁾	19835	20681	69900	Yes
8	Outside ⁽⁴⁾	20577	20943	69900	Yes
9	Inside ⁽⁵⁾	35982	37707	52350	Yes
9	Outside ⁽⁵⁾	48853	52459	51615	No

Table 6: Service Level A/B Load Combination, Primary-Plus-Secondary Stress Intensity Evaluation

Notes:

1. Material at location is SA-240 TP 304 [3].

2. Material at location is SA-508 Class 1 [3].

3. Material at location is SB-166, treated as Alloy 600 [3].

4. Material at location is Alloy 52M [3].

5. Material at location is SA-403 WP-316 [3].

6. All material stress allowables [4] are based on the maximum $S_n/3S_m$ ratio from VESLFAT output files ending in *.FAT (see Appendix B for example).

7. See Figures 1 and 2 for illustration of indicated locations.

8. Mechanical loads are applied in the positive direction (Base Case).

9. Mechanical loads are reverse from the Base Case (Reverse Case).

10. S_n are based on the maximum $S_n/3S_m$ ratio from VESLFAT output files ending in *.FAT (see Appendix B for example).

11. The calculation of $3S_m$ is performed by VESLFAT using the element temperatures along the selected path and interpolating between the ASME Code, Section II values.

		Equation (12)			Equation (12)			Equation (13)		
Path ⁽³⁾	Surface	Moment Stress (ksi) ⁽⁴⁾	Allowable 3S _m , (ksi) ⁽²⁾⁽⁵⁾	Accept	Maximum Stress Intensity Range (S _n), (ksi) ⁽⁶⁾	Allowable 3S _m , (ksi) ⁽⁵⁾⁽⁷⁾				
6	Outside ⁽¹⁾	51.165 ⁽⁸⁾	51.642	Yes	41.794	51.642	Yes			
9	Outside ⁽¹⁾	3.073 ⁽⁹⁾	51.615	Yes	44.978	51.615	Yes			

Table 7: Simplified Elastic-Plastic Evaluation Results

Notes:

1. Material at location is SA-403 WP316 [1].

2. Material stress allowables evaluated are based on those generated in Table 6.

3. See Figures 1 and 2 for illustration of indicated locations.

4. Equation 12 evaluation can be found in Excel Spreadsheet " *SectionIII_v120-TMI-SPRAY-no-obe.xls*" in the tab "Eq-12." Stress intensity results were conservatively used.

5. The calculation of 3S_m is performed by VESLFAT using the element temperatures along the selected Path and interpolating between the ASME Code, Section II values [5].

6. Equation 13 evaluation can be found in Excel Spreadsheet " *SectionIII_v120-TMI-SPRAY-no-obe.xls*" in the tab "Eq-13."

7. The calculation of 3S_m is performed by VESLFAT using the element temperatures along the selected path and interpolating between the ASME Code, Section II values.

8. Moment stress from out of plane moment (Mx) is used to calculate Equation 12, since stratification load is responsible for the Service level A/B failure.

9. Moment range used to calculate this stress is taken from events 1 through 8, excluding stratification event, as this is not the event which contributes to maximum stress intensity range in Table 6.

Transient	Event ⁽¹⁾	Cycles ⁽²⁾
Plant Heatup	1	240
Plant Heatup	2	240
Plant Cooldown	3	240
Step Load Reduction/ Reactor Trip Due to High Reactor Pressure/ Rod Withdrawal Accident	4	65938
Reactor Trip with Loss of Flow/Loss of Station Power	5	80
Reactor Trip with Loss of Flow/Loss of Station Power	6	80
Reactor Trip Due to High Reactor Temperature	7	180
Rapid Depressurization	8	1480
Stratification Moment	9	7200
Hydro Test	10	20
OBE		660

Table 8: Event Cycles

Notes:

- 1. Used by VESLFAT to identify event groupings.
- 2. The cycles provided in Table 9 of Reference 6 are for 60 years of operation.

Path ⁽¹⁾	Surface	Material ⁽²⁾
1, 4, 7	Inside	SA-240 TP304
	Outside	SA-508 Class 1
2, 5, 8 3, 6, 9	Inside	SB-166 (Treated as
		Alloy 600)
	Outside	Alloy 52M
	Inside	SA-403 WP-316
	Outside	SA-403 WP-316

Table 9: Materials for Fatigue Evaluation

Notes:

1. See Figures 1 and 2 for illustration of indicated locations.

2. Identified in Reference 3.

D - 4h		Maximum Alternating Stress Load Pair			Tatal	
Path No. ⁽¹⁾	Surface	Event Pair ⁽⁴⁾	S _n (psi)	K _e	Alternating Stress (psi)	Total Fatigue Usage ⁽³⁾
1	Inside	6&10	16008	1	24472	0.0004334 ⁽²⁾
1	Outside	2&6	20233	1	14077	0.0010798
2	Inside	1&9	19256	1		0
2	Outside	3&6	21278	1		0 (2)
2	Inside	6&10	34953	1	20109	$0.000079^{(2)}$
3	Outside	3&6	37082	1	23263	0.0003368
4	Inside	6&10	15911	1	24398	0.0004795 ⁽²⁾
	Outside	2&9	26722	1	18155	0.0041867
E	Inside	6&9	16862	1	15103	0.00003
5	Outside	6&9	24480	1		$0.0000000^{(2)}$
6	Inside	1&6	30584	1	16873	0.0000766 ⁽²⁾
	Outside	3&9	72648	2.293	110595	0.6640993
7	Inside	6&10	16704	1	24613	0.0004269 ⁽²⁾
	Outside	2&6	20864	1	14259	0.0011338 ⁽²⁾
8	Inside	3&6	9050	1	14935	0.0000092
	Outside	3&6	20943	1		0 ⁽²⁾
9	Inside	1&9	37707	1	20661	0.0005513 ⁽²⁾
	Outside	3&6	52459	1.055	43411	0.0080245 ⁽²⁾

Table 10: Fatigue Usage Results

Notes:

1. See Figures 1 and 2 for illustration of indicated locations.

2. Reversed Piping Load Case.

3. Cumulative fatigue usage from all contributing load pairs.

4. Refer to Table 8 for event identification.



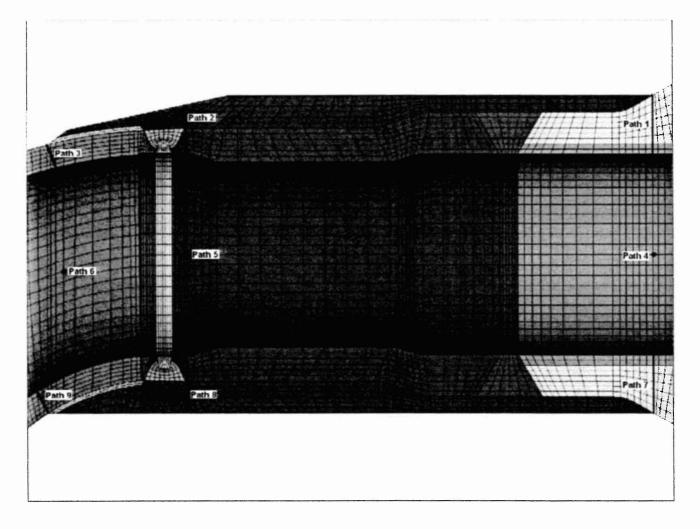


Figure 1. Stress Path Definitions of Minimum Weld Overlay for ASME Code, Section III Evaluations

(Figure is from Reference 3)



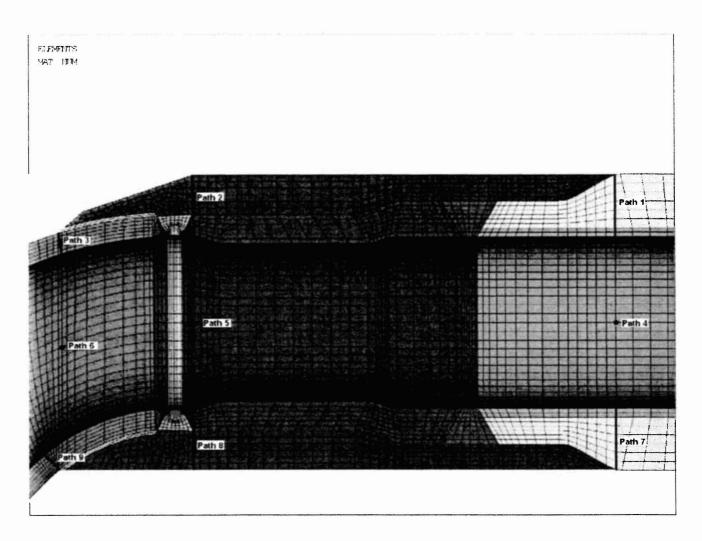


Figure 2. Stress Path Definitions of Maximum Weld Overlay for ASME Code, Section III Evaluations

(Figure is from Reference 3)



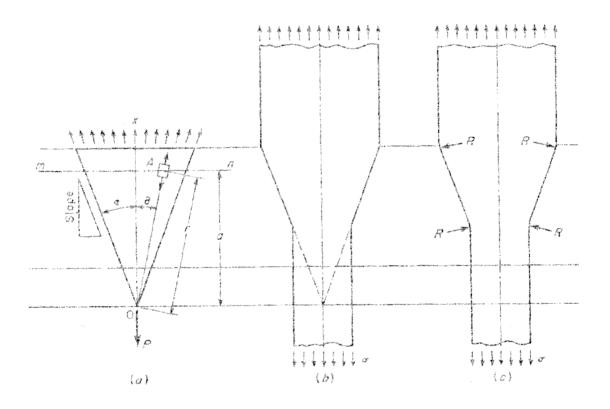


Figure 3. Tapered Transition Section



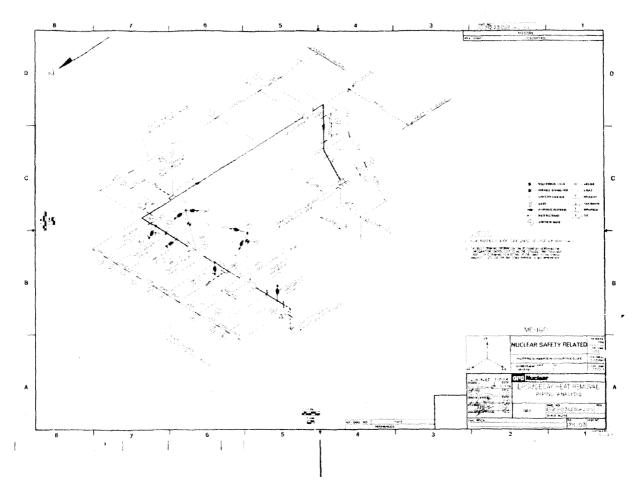


Figure 4. Isometric Drawing of the Spray Piping (Note: Figure is obtained from Reference 10)



APPENDIX A

SUPPORT FILES

File Name	Description
SectionIII_v120-TMI-SPRAY-\$\$.xls	Excel Spreadsheet used to Create *.STR Files for use in VESLFAT Fatigue Program. (\$\$ = no-obe, Pair-1, Pair-2, Fatigue-Pair-1, Fatigue-Pair-2)
P*-I.CYC	Cycle Data Input File for Inside Surface Locations for VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-O.CYC	Cycle Data Input File for Outside Surface Locations for VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-I.FDT	Material Data Input File for Inside Surface Locations for VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-O.FDT	Material Data Input File for Outside Surface Locations for VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-LSTR	Stress Data Input File for Inside Surface Locations for VESLFAT Program Created by Excel Spreadsheets Listed Above, where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-O.STR	Stress Data Input File for Outside Surface Locations for VESLFAT Program Created by Excel Spreadsheets Listed Above, where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-I.ALL P*-I.ORD P*-I.PR P*-I.ST1	Intermediate Result File for Inside Surface Locations Created by VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-O.ALL P*-O.ORD P*-O.PR P*-O.ST1	Intermediate Result File for Outside Surface Locations Created by VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-I.FAT	Fatigue Result File for Inside Surface Locations Created by VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.
P*-O.FAT	Fatigue Result File for Outside Surface Locations Created by VESLFAT Program where, * = Paths 1 through 9. 'r' in file name indicates Reverse Piping Load Case.



APPENDIX B

EXAMPLE VESLFAT FILES



VESLFAT INPUT FILE P3-O.CYC:

Ν	Name	N
	unite tanks dealer taken at	المحاف
1	TMI 1-	240
2	TMI ² -	240
3	TMI ³ -	660
4	TMI 4-	65938
5	TMI ⁵ -	80
6	TMI ⁶ -	80
7	TMI ⁷ -	180
8	TMI ⁸ -	1480
9	TMI ⁹⁻	7200
1() TMI_10-	20



VESLFAT INPUT FILE P3-O.FDT:

File N	o · 1	000320.3	315									Anna an an Anna an Anna Anna Anna Anna	Pac	Te P	3-3 of
1 1 1	THI 1-1800 THI 1-2160 THI 1-2520 THI 1-2880 THI 1-3240	610-8 739.5 867.2 1001.9 1117.0	923.8 1075.8 1226.3 1390.4 1529.4	1183.2 1398.9 1625.5 1862.2 2066.8	-10.7 -11.8 -12.9 -14.1 -15.0	-584.6 -693.3 -807.8 -926.2 -1632.0	-60.6 -71.9 -83.8 -96.2 -106.7	699.2 835.7 980.0 1132.1 1262.2	1043.9 1210.0 1385.8 1571.1 1728.3	1337.1 1580.7 1836.9 2104.3 2335.5	-12.0 -13.3 -14.6 -15.9 -17.0	-660.6 -783.4 -912.8 -1048.9 -1166.2	-68.5 -81.3 -94.7 -108.7 -120.6	119 129 139 149 159	26.5 31.8 37.1 42.4 47.7
1 1 1 1 1	THI 1-0 THI 1-360 THI 1-720 THI 1-1080 THI 1-1440	0.0 191.2 298.1 398.6 504.5	0.0 355.9 525.8 654.7 784.7	0.0 380.3 598.1 783.6 977.5	0.0 -5.3 -7.2 -8.4 -9.5	0.0 -182.0 -292.2 -384.9 -481.4	0.0 -18.4 -29.7 -39.4 -49.8	0.0 204.7 336.9 450.4 570.1	0.0 402.2 594.2 739.9 885.7	0.0 429.8 \$75.9 #85.5 1104.6	0.0 -6.0 -8.1 -9.5 -10.8	0.0 -205.7 -330.1 -434.9 -544.0	0.0 -20.8 -33.6 -44.6 -56.2	70 79 89 99	0.0 5.3 10.6 15.9 21.2
¥.	Rame	' ALL LIN I 5m	SUL P	Sta	3- U .51	Л. 5×2	542	Š×.	2 7 3.	5××	S×y	5 * ∓	Sy*	Tmax	Pmax
	750 ESLF	24450 F AT INI	16. N t f		17.9 13.0.ST	۳R۰									
	700	24800	16.		18.2										
	550	25050	16.		18.5										
	500	25300	17.		18.9										
5	500	25900	18.	. 0	20.0										
4	100	26400	19.		21.4										
	300	27000	20.		23.4										
2	200	27500	20.		25.9										
10	70	28300	20.		30.0	.01									
	erra	E,ksi	Sm,		Sy, k		JIU.	ک اسلا دی د							
		l Prope			(SA-40	3. WE	316	ASME 2	2004)						
		00000 00000		.3.7											
		00000		.3.9											
		00000		4.1											
		00000		4.3											
		00000		5.2											
		00000		6.4											
	50	00000	1	8.4											
	20	00000		2.8											
		00000		8.2											
		00000		1											
		00000		5.9											
		00000		0.8											
		20000 50000		6.3											
		10000		5.5											
		5000		6											
		2000		17											
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8	2942 8-675	7424.4	11170.0	13691.8	- 80.0	-6800.0	-658.D	8389.5	17627.1	15460.4	-90.4	-7684.0		1192.0
8	THI 8-698	7361.9	11000 6	13536.2	~78.2	-6735.7	- 652 . 4	8319.0	12430.7	15295.9	~88.3	-7611.3		1157.0
8	1941 8-720	7300.5	10831.1	13390.7	-76.3	-6678.3	-646.0	8249.6	12239.2	15131.5	-86.3	-1537.5	-730.9 518.9	1122.0
8	7912 8-743	7238.5	10662.7	13245.2	-74.5	-6605.0	- 643 . 2	8179.0	12048.8	天安照明节 . 第	-84.2	-7463.8	-724.6 516.9	1087.0
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a	7543 8-788	7115.2	10325.7	12954.1	-70.9	-6475.3	-630.1	8040.7	11668.1	14638.2	-80.1	-7317.3	-712.0 512.9	1017 0
	TM1 0-010	7055.8	10150.3	12808.6	-69.0	6410.9	-624.5	7970.8	11478.8	14473.7	-78.0	-7244.3	-705.7 510.8	982.0
6	THI 8-011	6992.4	5989.8	12663 1	- 67.2	-6248.6	618.9	7501.4	11268.5	14309.3	-76.0	~7171.6	-699.4 508.9	947.0
	TMT 0-055	6930.9	9822.3	12523.6	- 65 . 4	6282.2	-613.4	7832.0	11099-3	14151.6	-73.9	-7098.9	-693.2 506.9	912.0
8	1941 8 - 878	6870.5	9654.9	12380.1	-63.6	-6217.9	一般故事 巖	7763.7	10910.0	13989.5	-71.8	-7026.2	-686.8 504.9	877.0
6	1941 8-900	6609.1	5487 4	12236.5	- 61.8	-6153.5	- 602 . 3	7654.3	10720.8	13827.3	-69.8	-6953.5	-680.6 502.9	842.0
6	TMX 8-915	6620.4	9563.4	12298.7	-63.6	-6171.5	-603.6	7707.1	10806.7	13897.6	-71.9	- 6973.8	-682.0 501.8	841.0
	THE 8-930	6828.7	9621.4	12344.9	-65.1	-6387.4	605.3	7716.5	16872.2	13949.8	-73.5	-6991.8	684.0 501.0	846.0
	1941 8-960	6833.3	9679.4	12385.3	- 66.9	-6200.3	-607.9	3721.7	10937.7	13995.4	-75.6	-7606.3	-686.9 499.6	838.0
8	046-5 240	6831.0	9708.4	12599.7	- 69.3	-1203.2	-609.3	7719.0	10970.5	14011.7	.77 0	-7009.6	-688.5 498.4	836.0
в	10HI 8-1020	6823.6	9720.4	12394.1	-69.0	-6200.1	-649.8	7710.7	10984.0	14005.3	-77.9	-7006.1	-689.0 497.3	834.0
	1941 8-1050	6813.2	9722.4	12370.5	-69 5	-6193.9	609.5	7698.9	10986.3	13987.7	-78.5	-6999.2	-688.8 496.2	832.0
8	7911 8-1080	6800.9	9716.3	12352.9	-69.5	-6103.8	-608.7	7685.0	10979.5	13958.7	-78.9	- 6987.7	687.9 455.2	630.0
	7942 8-1110	6786.5	9705.3	12335.2	~'70.0	-6172.7	-607.6	7669.7	10967.0	13936.6	-79.1	- 6975.2	-686.6 494.2	828.0
a	7942 8-1140	6770.1	9690.3	12304.6	- 26.1	-6158.6	-606.2	7650.2	30950.0	13904.2	-79.2	- 6959 . 2	-685.0 493.2	826.0
	THI 8-1170	6752.7	9671.3	12274.0	- 70.1	-6144.5	- 604 . 7	7630.6	10928.6	13969.6	-79.2	-6943.3	-683.3 492.1	824.0
8	THI 8-1200	6736.4	9650.3	12240.4	-70.1	-6128.4	~603.0	7669.8	10904.9	13831.7	-79.Z	-6925.0	-681.4 491.1	822.0
8	2941 8-1260	6778.4	9603.3	12370.4	- 73.2	6381.4	608.3	7659.5	11077.7	13978.6	82.7	-6984.9	-687.3 490.4	822.0
4	1941 8-1320	6605.4	9863.3	12430.4	-74.9	6212.4	611.9	7690.3	11168.1	14046.4	-84.6	~7020.0	-691.4 490.2	822.0
a	2942 8-1395	6825.4	9938.3	12470.4	-75.9	-6234.4	-614.2	7712.7	13238.3	14091.6	一部祭、御	-7044.8	-694.0 490.1	822.0
8	794 8 1470	6838.4	9971 3	12500.4	-76.5	-6247.4	-615.4	7727.3	11267.5	14125.5	-86.4	-7059.5	-695.4 490.1	922.0
8	781 8-1545	6847 4	6. 1826	12510.4	-76.8	-6256.4	-616.0	7737 5	11290.1	14136.8	-86,8	~7069.7	-696.0 490.0	\$22.0
a	THE 8-1620	6852.4	10005.3	12520.4	-17.0	-6262.4	-616.4	7743.2	11306.0	14148.1	-87.0	-7076.5	696.5 490.0	822.0
9	TMI 8-1695	6856.4	10014.3	12530.4	-77 1	-6265 .4	-615.5	7747.7	11316.1	14159.4	-87.1	-7079.8	696.6 490.0	822.0
8	765 8-1748	6858.4	16018.3	12530.4	-77.1	-6267.4	-616.6	7749.9	11320.7	14159.4	-87.1	-7082.1	-696.7 490.0	822.0
8	TMI 8-1800	6859.4	10022.3	12530.4	-77.1	-6269.4	-616.5	7751.3	11325.2	14159.4	-87.2	-7084.4	-696.7 490.0	822.0
â	TM2 8-4808	6864.4	10033.3	12540.4	-77.2	-6273.4	-616.6	7756.7	11337.6	14170.7	-87.2	-7088.5	-696.7 490.0	822.0
9	TH1 9-0	8703.6	16550.8	16979 9	-1176.7	-8209.4	-822.2	9835.1	18702.4	19187.3	-1273.1	-9276.6	-929.1 555.0	2242.0
10	2942 10-0	0.0	0 0	Ø.0	0.0	Q.Q	0.0	0.0	ō. 5	0.0	0.0	0.0	6.0 70.0	0.0
10	TM1 10-1	3479.7	10225.0	£4#2.3	-145.1	-2329.7	-178.6	1672.0	11554.3	7323.8	-164.0	-2632.5	-201.8 70.0	3125.0
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VESLFAT RESULT FILE P3-O.FAT:

VESLFAT Version 1.42 12/29/2006 (VeslFat1p42) 11-04-2010 12:19:39 Page 1

VESLFAT Load Set Pair Module Version 1.42 - 01/03/2007 (&VeslFatPair1p42)
Stress Pairing Analysis
Elastic Plastic Properties
 m = 1.7
 n = 0.3
Stresses Multiplied by 1 to convert to psi

Max General Membrane Stress(ksi) per unit Pressure (psi) = 0.01Upper Limit on Sy for large number of cycles NB-5222.5(b) (ksi) = 40

Material Properties vs Temperature

T,F	E, ksi	3Sm, ksi	Sy, ksi
70	28300	20.0	30.0
200	27500	20.0	25.9
300	27000	20.0	23.4
400	26400	19.3	21.4
500	25900	18.0	20.0
600	25300	17.0	18.9
650	25050	16.6	18.5
700	24800	16.3	18.2
750	24450	16.1	17.9

Stress ranges < 13328 psi neglected
Files:
 Input Stress File = p3-o.STR
 Converted Stress File = p3-o.ST1
 All Stress Ranges File = p3-o.ALL
 Significant Ranges File = p3-o.PR</pre>

Thermal Ratchet Case File = p3-o.TRC

File No.: **1000320.315** Revision: 0 Page B-8 of B-18



Max Ratio of Sn/3Sm = 0.574371 for Trans Pair 1 and 6 Max P+Q Stress, psi = 29647.86 <= 3Sm, psi = 51618

VESLFAT Load Pair Sort Module Version 1.42 - 12/29/2006 (&VeslFatSort1p42) Sorting Stress Ranges from File = p3-o.PR Storing Output Ordered Ranges in File = p3-o.ORD



Fatigue Analysis using VESLFAT Fatigue Module Version 1.42 - 12/29/2006(&VeslFatFatlp42)Page 211-04-201012:19:47

Input Echo:

Fatigue Properties: m = 1.7 n = 0.3 E (Fatigue Curve), ksi = 28300 E (Analysis) chosen at the highest of transient pair temperatures Sm chosen at the highest of transient pair temperatures

Fatique Curve:	Cycles	Sal	lt, ksi
racigae carve.	1.0E+01		708.00
	2.0E+01		512.00
	5.0E+01		345.00
	1.0E+02		261.00
	2.0E+02		201.00
	5.0E+02		148.00
	1.0E+03		L19.00
	2.0E+03		97.00
	5.0E+03		76.00
	1.0E+04		64.00
	2.0E+04		55.50
	5.0E+04		46.30
	1.0E+05		40.80
	2.0E+05		35.90
	5.0E+05		31.00
	1.0E+06		28.20
	2.0E+06		22.80
	5.0E+06		18.40
	1.0E+07		16.40
	2.0E+07		15.20
	5.0E+07		14.30
	1.0E+08		14.10
	1.0È+09		13.90
	1.0E+10		13.70
	1.0E+11		13.60
		Cycles	
1 TMI	1-		240
2 TMI	_2-	240	
3 TMI	3	660	
4 TMI	_4-	65938	
5 TMI	_5-	80	
6 TMI	<u> </u>	80	
7 TMI	_7-	180	
8 TMI		1480	
9 TMI		7200	
10 TMI	_10-	20	



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2 - 120 - 17
2 - 120 - 12
2 - 120 - 120
2 - | 会理论的公司
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 | 2010-07.7
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一些报,2
一些字,译
一些字,题
一些字,算 | 12271, 2 1048, 2 14499, 2 14499, 2 15499, 5 154924, 5 149244, 5 149244, 5
 | · 2010、10 - 2010 - 10
· 2010、21 - 2010 - 10
· 11月11日 - 2010
· 2010、41 - 2010 |
| 1992 _ 1 = 5 + 60
1992 _ 1 = 602 24
1993 _ 5 = 602 24
1993 _ 5 = 60 40
1993 _ 5 = 60 40
1993 _ 5 = 72 1943

 | 品牌 网络小袋
品牌等加工具
工作网络小师
品牌实施工作
品牌实施工作 | 2.654.8
2.416.8
4102.9
4.02.9
4.03.0 | (新田県)、東
(月田市)、藤
(田市)、東
(新田市)、東
(新田市)、東
 | 一定来。朱
一定行,这
一定行,说 | -2003/0.00
-2013/00.10
-2013/2013
-2012/2010 | 一定建筑。有
一定公司,提
一定公司,有
一定公司。 南 | 2007,2
2016,3
2016,4
2016,4
 | 1. 1997 (1997)
- 1997 (1997)
- 1997 (1997)
- 1997 (1997)
- 1997 (1997) | 法承认公司 4000年代
1990年代日本
1月10日代日本
1月10日代日本
1月11日代日本
1月11日代日本
1月11日代日本
1月11日代日本 | $-2h_{1}h_{2}h_{3}$
$-2h_{1}h_{3}h_{3}$
$-2h_{1}h_{3}h_{3}h_{3}$
$-2h_{1}h_{3}h_{3}h_{3}$
$-2h_{1}h_{3}h_{3}h_{3}$
$-2h_{1}h_{3}h_{3}h_{3}h_{3}h_{3}h_{3}h_{3}h_{3$
 | 一次公司公司的
一次之前来,你
一次的新来,这
一次的新来,这 | -214 8 2249
-22532 2269
-26924 269
-26924 259
-26924 269 50 |
| $\begin{array}{l} 1915 & 1 + 5560 \\ 1915 & 1 + 5960 \\ 1915 & 1 + 8960 \\ 1915 & 1 + 8960 \\ 1915 & 1 + 8660 \\ 1915 & 1 + 8660 \\ 1915 & 1 + 5000 \\ \end{array}$

 | (1970),建
(2222),每
(4198),每
(51,84),6 | 《华静音、建
《小雅庙、复
京李子帝、复
孝子姓氏、泉
李子姓氏、泉
李子姓氏、马 | · 11月1日,有
《四字字》,中
《四字字》,中
《四字字》,容
《四字字》,容
《四字》,句
 | - 28, 8
- 68, 3
- 52, 1
- 52, 7
- 54, 1
- 55, 3 | - 2.5 (2.6) - 2.5 (2.5) - (10.61) - (10 | ····································· | 12月4日、17
- 4「2」2
- 4月1日、2
- 4月1日、2
- 4月1日、3
- 4月1日、3
- 42- 41-0
 | 41 82,22
545 5,4
364 5,4
4 4 5,5
15 6,0
1 5 16,7
1 5 16,7 | 1,2549,37
6,23,23,3
6,25,40,4
6,25,40,4
7,2,2,5
1,45,6
2 | < q²₂ , q < 3, y < 85, 2 < 85, 3 < 9, 4 < 10, 1 < 40, 4 | 一些有毒化、新
一次是这些人的
人们是不可以是
一般都是的人名
一般的是的人名
 | - 119(1)、第二目前 - 119(1) - 119(1) - 119(1) |
| 60:5:5 - ("197
0:15:

 | 12.46%、集 14.12%、14 4.12%、14 4.12%、14 4.12%、14 4.12%、14 4.14%、14 | 有多种的人子
- 杨星子、中
家是有了,中
有个字,母
的原则最小子 | 496过来,想
我们接通。50
年上月月,20
年月月,20
19月1日,19月
19月1日,19月
19月1日,19月
 | | 二、小小小、白
一、小等之、白
一、小等子小、白
一、白香人、白
一家建(G)、自
一、白甸人、自
一、雨雨火、接 | 1562、考 1519、19 1519、19 1519、19 1519、19 1519、19 1519、19 1519、19 1519、19 | 421、44、14
2月44日)
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 | -310.1
5667.5
5427.3
61666.0
6312.5
6423.5 | 14446、2
(外房記),
化外房記,
化小房庭, 2
化物化剂, 14
化物化剂, 15 |
 | 人口的复数。由 一些保護時間、熱 一些保護時間、熱 一些保護時間、影 人間、約 人間、約 人間、約 人間、約 人間、約 人間、約 人間、約 人間、約 人間、約 | · 湖南,市 道學 1. · 湖南,市 道學 1. · 福賀,府 4(中 1.) · 福賀,市 4(中 1.) · 田市省,市 4(中 1.) · 田市省,市 4(中 1.) · 田市省,市 4(中 1.) · 田市省, 2(南 1.) · 田市省, 2(南 1.) |
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1958.9 | 600-6628
667-6629
6700823
2568229
2588229
2588229
25862229 | 小田、田
小田、王、日
林田、王、日
小田、王、日
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小田、田
 | -4-,0
4.2
21.1 | 《水湖市》,注
一些新闻部,我
二年进出时,并 | - 1999 , 4
- 198 , 9
- 200 , 2
- 200 , 2 | 20月2日
(小道月1月)
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 | 647223335
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23343337 | *531.5
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2723.0 | - 2時10月
- 年1月
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 | | - 446-1-22 - 1414 - 22
- 449-14 - 1422 - 22
- 2242-14 - 1423 - 2
- 224 - 14 - 1424 - 2 |
| 1742_1=10008
1741_1=10008
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 | 18.3
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(92.7
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(9.0) | <1855.00 <3657.05 <3760.05 <3768.22 <2638.2 <2638.2 <2638.7
 | 2273)
2249,4
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2353,2
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2 | 43494.2
42444.2
4245.7
43497.2
43444.6
43444.6 | 476, 6
2012, 6
1112, 6
1116, 6
1116, 7
1116, 7
 | <1/27.4 <27.12.7 <27.12.8 <27.124.8 <27.144.3 <27.144.3 | -43,4 (2) 2,
-43,7 (14 2,
-43,7 (14 2,
-41,1 306 2,
-(1,4 2,06 2,
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| (ML_1+1)028
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 | 25425.1
2548.9
2545.9
2575.8
2575.8
2552.1 | 有所有"小桥"
有特定,都
了我是大小楼
于大桥市,张
星大桥市,张 | 1474.19
1474.14
1518.15
1515.7
 | 5-34, 9
393,2
313,2
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344,5 | -2663.5
-2633.8
-2433.0
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10419
12417
14419
16217 | 4393.0
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4533.5
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 | 1911.0
1466.1
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1792.4
1745.7 | 4123777777777777777777777777777777777777 | 11月2日,21
11月2日,21
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 | 《公文出版》注
《公文出版》:1
《公文》注题,因
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| 1941 - 3 - 1 1 1 4 8
1942 - 1 - 1 3 3 1 2
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 | 27.06.2
23.12.14
26.96.4
26.95.6
26.95.6
26.42.7
26.42.7
26.42.9 | 1.474,8
1.454,0
1.447,0
1.274,1 | 16,6,6,7,8
16,7,8,2
16,5,1,2
16,7,9,6
16,7,2,10
16,7,2,10
16,2,10,3
 | 518.Y
575.8
777.7 | -2420.7
-2408.3
-22500.0 | 178,2
244,3
207,6
228,4
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216,3 | (建下了,后
(这历母,句
(包含有")后
(1)(此句) (1)
 | 2000,000
2000,000
2002,00
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2000,00 | 42日次、毎
420日本。
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420日本、
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| 1941_1-112.66
1941_1-112.92
1943_1-11316

 | 建化等型公司
正有研究上标
正确研究上标 | 1466.2
1728.5
1746.5
146.4 | 35203.8
3466.3
4007.5
 | 1+0,1
>1,0
>43,9
\$43,4 | -1, 1941, 5 -2,345, 2 -2,2366, 9 -2,2266, 5 | 216,3
263,5
269,9 | 1950815
2962815
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2961519
276519
 | 生化清除,22
2115年2月,15
2116年1月
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1916 - 7
1970 - 4 | 2014.5
2014.5
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 | -11月1日
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| e Analysis tein
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11-04-2010 | 12<19:47
 | (156 (AVen)Focks | | |
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| 6 Andiysis usin
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 | 10 (RSIFA) Fati
2184.0
2180.1
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2024.3
2124.3 | ute Modale Verser
12-04-2410
1275.5
1244.4
1223.0
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1204.4
1104.4 | 12:19:47
- : : : : : : : : : : : : : : : : : : :
 | 179.3
177.4
176.4
175.7
175.7
171.1 | <pre>>>23998.2
>>23996.9
>>2399.4
>>2089.3
>>20898.3
>>20988.3
>>>20988.3</pre> | 2016年1月
2017年6月
2015年6月
2015年6月
2015年8月
2015年8月
2015年8月 | 2690), 5
2695, 8
2495, 9
2415, 9
2415, 9
2415, 9
2416, 1
 | 1444), b
2444, b
2578, 5
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2578, 5 | 1.
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	「「「「「「「「」」」」である。	2.44.0						252814				121399122 122952	
6	the Constant	1.193.12	1. J. M. J. M.	12.3.4.3	- 67 J S	121 2 4 A	1243.2	1010	8-4-06 x 2	4229.8	$c \to 0^+, ~\bar{m}$	-, -, -, -, -, -, -, -, -, -, -, -, -, -	-1 , b_{1} , b_{2} , -100 , 0
2	"你这是这一是希望你的	2604.8	55.82.6	10397.3	- 6 4 . Z	~, Ap.2 (Y , N		2943.9	4 128.5	4445.2	2 A	-2028.7	-252.4 Pag. (\$4.4
<i>2</i>	81[2+17134	2356.4	12414	1002/FL 3	1. A. C. 1. Mar.	1216.0	<24.8 €	196.5	4 24.2 42.19.5	43.040 - 1	2.14.1	A 1441, 2	- 413, 2 , 24 - 5-5, 5
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2	1991 (and 2013) 4	2923.3	$\mathcal{F}_{1}(\tilde{g}) \to \tilde{H}_{1} \ , \ \tilde{\Phi}$	$h_i \in \{i, j\}$	< \$1.91 p. 26	1. 12 B. S.	1266.4	1.485.5	6.416.2	1110.1	- 11 Ja	- 1 19 F. B	一点: 医小脑 医结节 白垩形的
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2	1947、是一个阶级成本	204.4	6416.0	4281.2	-33.5	4 15 Mar (2		1423-12	2123.1	1242 J h	-R3.1	- 1611.1	- 0.2.2 211 (d)4.2
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3	111 2-186-3	14.94 . 15	1107.4	2418.5	4 . 2	N3432.9	- 637. C	194516-17	*11×.7	~<0 H . 6	2 KR . 4	+ -424, Y	从外生,并 计处于 经济停止的
	1941 (D-1844)	1.911.1	1164.1	1613.5		1.66.1	- (44)2	在北桥桥,21	 G(1), 6. 	6646.2	-96.2	-4429.7	- 1441, 2 - 2 42 - 13 14 14
	242 2 - 1 29 1 3	(491.9	21.43.1	645.2	-*1.)	· (650.8	11.2.0	4223.2	NY53 4 14	ERAS. S	- 15. 3	e (1.56.2	-401.1 LV1 (118.v
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	199 2-19641	crid4, 6	-140.4	-464.9	- 46 7	- 196d. B	- 181.5	1.20.5	1166.5	645.3	297.5		energy and the state of the second
	193,2+19753	4211.3	1.94.9	4670.7	-46.5	-59-52.3	- 275.6	4641.6	4393.2	1911.9	144.8	- 41 B I . 1	《安日本》称:"你们,你们的你们,你们不知道。" "你们的你们,你们们的你们,你们们们们们们。"
	243 2×89.043	1216.9	4521.6	410.26.2	1.0.1	-6154.6	- 43 2 . 1	102月后,1	1945.2	10012.4	141.8	-1100.5	一切人 希望 法自己的法
1	1946 [2-19173	4、2月、長	N.869.3		1.12	一日新闻,可	-411.2	CARL B	N196 3	10268.1	-143.3	-9454.4	-466.9 (20) (10)4.2
	1943 - Jacob 1942 1943 - Jacob 1942	202.1	- 1 - 1	1947.2	50.50	editel. N	- 623.3	6495.5	35909.7	10105-2	-105.4	- 在42, 位, 位	-cin.1 (14 1-47.1
	1913 UK 1914 1914 1915 12 - 2015 12	45.44.8	1441.9	1.08.2		+2465.1		1.6.1	1002713	10748.8	-101.5	-5045.4	- 46-9, 3 - 140 - 1+73, 3
÷		1.40.1 1.41.5	1019.0	121.5	64	-2.64.4	- 4 4 5 . 3	6965 d	10443.4	10985.2	-109.5	- 162.3	-104.7 -45 5 -05.2
	181 [2+34342 181 [2+34443]	1748.4	9423.2	978 AL . Y		- 周白1首,南	- 47 2 . 11	76.8	10514.9	11221.0	2111.3	A 52 0 M - M	
	041 040 1322	1461 7	144,13,1 146(1) 7	13127.6	1997 - 19 1997 - 19	一夜了离气,他	- 462.3	2443.3		[1444.2	2142.8	25386.5	-122.4 155 1445.5
1.1			4348.4			- 6464.1	-411.4	1414.5	11.0天气,药	11674.0	-114.6	- (0) 0	- 22.19 111 140 14
÷	Tres 24-24-12	4×70.) Safet (t	1999 A. A. 1994 A. A.	14436.2 24345.4	-101.4	一百姓的第三人称	- 4 1 1 - 4 - 4 1 1 - 1	1.44.4	1:244.3	110/4.0	-114.4	- 1011.00 - 4333.3	·····································
	041[2-231.02						- 4 - 4 - 5 - 4 - 6 - 5	一、白银、碧 白叶天有、孝	1120 A.S.	1171017		- 42728 - 12786 - 3	一行使了,除了一行的时,一定任何多少的 一行行使,这一次等于,一次个学习,使
÷	1965_2×23.6×2	1. C = 2.	1.48	1077.81.4	-104.4	- 474 h			11044.8	1235418	-118.2	· · · · · · · · · · · · · · · · · · ·	
2	1943_2=23.882	1.102.2	19376.3	123-264.1	-146.2	1.13A .B	2199331 21997-1	1991.9 6111.7	是王子说话,说 王子见他的,谁	1.2.3.9.1、9 1.2.6.3.6、1	-124.0	-1921 B	从"我想,是""是真容",是想得到,想 从不可能 推 化橡胶 化乙酸医乙酸
÷	CM3_21-22432	1433.9	10572.0	11148-6	<107.8	-1544.5				120101011	一月公主,年 一月会 11月6		化化物理试验 法推销 医外外的口口
	1141 [2-22263	1526.5	:3 ° 6.6 ,8	11-4-1	-194. G		-19.4	6.44.9	1,0168.2		121.0	$-a_{1}(\dot{\beta}, \dot{\gamma}) \in \mathcal{G}$	v 641 A 363 7.651 0
2	જાત્ર દૂર નગરા નગર	1440.1	19962.5	11.5gid H - 白	-111.0	-14-5.4	-129-3	6-73.3 9102.5	17563,3 176638,3	1+119.8	<125.4	- 石泉時間、海 - 石泉時間、市	-0.97.0 002 1611.5 -0.09.0 006 0630.6
	TES_2-22-641	5754,7	25条处,4	11+25-3	1112.5	- 632.7	-1119.18			11162.6	4127.2		
2	લ્લા ્રિસ્ટાટ્સ છે.	5.64.4	\$ \$ \$ \$ \$ \$ \$	1.035.8	N 2 6 4 12	-5766.9	-1-48.2	$1, d_{\mu}^{2} \geq \delta_{\mu} \geq 1$	$1 \geq e \in Q \otimes (A)$	15604.5	-119.0	$-\vec{n}_{1}\in [0,1], \vec{n}_{1}$	-639.5 \$125 \$1559.6
	299 <u>2</u> 8-2 (d28	12.9	11.29.4	17211-6	-115.3	~5101.2	+ 5.95, 19	6.125.8	1.1928.2	13.2519-12	- (>) , 2	- is '- q Q	-626.2 406 1653.7
÷.	001 2-20211	6338.1	11492.1	12387.3	<137.2	四语节者 1.5	~ 1 所行, 9	4523.3	1443213	2012/07/15	~3.52.5	~ 杨杨年初二直	-637.2 113 1767.7
2	(sc)[2+2740]	6124.1	111年代4月1日	12:562.7	-134.9	95367.1	2593.A	1.429.5	(五十十台,卷	14195.9	-124.2	-1712.2	-666,3 43 - 1993.*
¥	1941 [[2~23593	h209.7	1,057.9	12737.3	+120.4	-6048.4	-5.29.7	7.012.2	1.0560.2	14193.1	~136.0	~6+26.2	一遍的白、豆、豆豆等、白豆、豆、豆、豆、豆
4	THE 2 HILL R M .	居态均居实情	12145.0	12-13-0	一年最後,後	-6524.2	人名格尔尔尔	7115.1	1.4264.5	14591-7	<2.57.8	-6920.3 -2012.2	-664.1 429 17.9.9
i.	tes[2~v3921	6392.2 4462.7	11342.7 12505.5	1.8383.4	$-3 \gtrsim 5$. N	《春》待节:清	in the South	1211.9 1309.6	1:1947.2	14789.0	- 1 5 ⁴ - 6	- 2012.2	-63-13 - 535 - 1433.5
2	261_2-24160	44.61.7	15.242.2	5-1261.5	-121.1	-40-5	~601.4		2012-3.0	1.45年5、月	-141.)	-7139.3	-641.9 640 (*2).8
2	છત્ર ુંગ્રન્ટર નાખ	6553.4	12667.2	134-615	~526.6	- A 57 5 . 9	~ 4133.4	1635.4	14:13.9	15182.1	1143.1	~ 7232.a	-690.9 4445 (45).9
Parion	e Analysis esing	DESGRAT PACE	our Noduce Vector	on 1.42 + 12/29/2	006 (6VPp:EarEd)	(Lp42)							
234e	6		11-04-0010	on 1.42 + 12/29/3 12:15:47			and d. Z	1501. J	14816 3	15174.6	- 142 4	-3296.3	
Parigu Page 2	6		12-04-2010	12:15:47	 Law.2 	-6414-0		2501.3 7624.9	1+4156.7 147395.8	15178.4	-148.4 -148.8	-1285.) -1410.8	~639,1 434 (675.9 ~111,2 436 (546).0
234e	6 786_2+24040 786_2+24040 786_2+24040	4678.0 6767.7	12-04-00128 52404-9 53024-9	12:15:47 :1410.1 13923.7 :14923.2	-128.2 -128.5	-6454.0 -6654.2	-429.8	资有公理。30 、注册款,3	(470)5.8	15420.7	- + 446 - 84	- 1410.8 - 11.18,7	-111. 456 (505.0
234e	6 748_2+24740 748_2+24740 748_2+24740 748_2+24720 748_2+24720		12-04-2010	12:15:47 :1410.1 13923.7 :14923.2	+1200.2 -1229.0 -1111.7 -1112.0	- 在来年4月,23 - 月月15日,23 - 月月15日,23 - 月月16日,17	- 石泉中,面 - 石泉時,時 - 石月11、台	2424、9 (1422)(1140年))	1月7日年,唐 1月19日4月,3 1月11日月1日。3	15620.7 15662.4 16145.4	- 1 月前,後 - 2 月秋,何 - 1 1 112、節	- 2月1日,8 - 21、1月,7 - 14月2日	-1111, 2 476 (2016), () -254, 1 561 (2024, 1) -256, 6 566 (2048, 1)
234e	6 (H1]2+28740 (H1]2+28740 (H1]2+28740 (H1]2+28740 (H1]2+28740 (H1]2+28740	9-6-19-19 6-2-6-7 6-6-6-3 6-5-92-18 1-2-54 6-5-102-18	22-024-20280 22029-0 20024-0 232024-0 232025-0 1-2326-0 1-2326-0	120115240 1342825 1342527 1447522 1447522 1442525	×12時、2 ×12日、4 ×111、7 ×111、7 ×111、2 ×111、2	- 6.4 ²⁵ 46 (3) - 6.6.55 (4) - 6.6.55 (5) - 6.065 (4)	- 石泉谷、白 人類日時、自 人面目長、自 一面石泉、竹	2624、9 - 1622、4 11403、9 - 1443、9 - 1443、9	2月2時年,唐 2月19日月,年 2月1日月月日 2月1日月月日 2月1日月日,後	15620.7 35962.4 56145.4 56405.4	-146.8 -248.8 -1103.8 -1103.8	-2410.8 -27.16.7 -367.9 -21.46.5	 - 注意意、注 有价化 含化物的、使 - 公式(4)、注 等為者 注於(2),(1) - 公式(4)、并 等為有 注水者称。1) - 公式(4)、注 名称有 注水者称。1)
234e	6 7845_2+24036 7845_2+24036 7845_2+24030 7845_2+24020 7845_2+24030 7845_2+25400 7845_2+25400	的表示原,推 高少定节。2 高大周节。3 有少能变者,6 不过5年,6 不过5年,8	[]]-494-04930 (20020), 0 (20020), 0 (20020), 0 (20020), 0 (20020), 0 (20020), 0 (20020), 0 (20020), 0	1.2011年年4月 1月前日時、1 1月前日第月1日 1月前日第月1日 1月前日第月1日 1月前日前日 1月前日前日 1月前日前日 1月前日前日 1月前日 1月前	相關之間。 一個之間。 一個人的人的 一個人的人類 一個人的人類 一個人的人類	- 天来 ²¹ 44、23 - 天水254、23 - 天水251、4 - 天水262、23 - 天水262、23 - 天水262、23	- 429 - 8 - 6446 - 9 - 6611 - 9 - 6622 - 9 - 672 - 1	资源杂情。49 、治疗22、日 注水理研。49 环境不同。59 研究状境。41	2月17日年,唐 2月17日(月)3日 2月18日(月)3日 2月18日(日)4日 2月18日年(1月18日)3日 2月18日年月,2月	1-626,7 2-642,4 16142,4 164424,4 164424,1	一月月月,春 一复有新,何 一至了那,春 一点了了。? 一直不安,?	一日日1日, 一日日,日 一日日日,日 一日日日,日 一日二日日,日 一日二日日,日 一日二日日,日	-1111.2 416 1045.0 -754.1 561 1924.1 -756.6 566 1946.1 -756.1 571 1975.1 -155.7 471 1456.2
234e	6 745_2-28140 (%12-24146 (%12-24920 (%12-24920 (%12-24920 (%12-24400 (%12-24400 (%12-24400 (%12-24400 (%12-24400 (%12-24400 (%12-24400 (%12-24400 (%12-24400) (%12-24400) (%12-24400) (%12-24400) (%12-2400)	特易 2月、推 局子前子。推 局子前子。注 局子前子。注 局子前子。请 子子前子。有 子子前子。张	\$2+000 + 2018200 \$200220,0 500220,0 500220,0 500220,0 500220,0 500000,0 200000,0 200000,0 200000,0 200000,0 200000,0	120125747 13023517 23023517 2407552 24075810 24022315 34030813 34030516	4月23日,2 4月23日,2 4月14日,2 4月14日,1 4月14日,1 4月14日,1 4月14日,2 4月14日,2 4月14日,2 4月14日,2 4月14日,2 4月14日,2 4月14日,2 4 4月14日,2 4 4 5 16 5 17 4 5 18 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- 成资参数。 23 - 同行参数。 23 - 同行参数表示 23 - 同时编辑表示 25 - 同时编辑表示 26 - 同时复杂发示。通	- 420, 8 - 620, 8 - 621, 9 - 632, 9 - 672, 1 - 672, 1 - 674, 2	资源杂情。49 《竹锦》,4 《竹锦》,49 》是不通。49 》书记书,49 》书记书,20	是军不拘命,唐 是分子以明, 医 是公司不过, 子 是公司法子, 理 是公司法子, 建 是公司书记, 是	1.4月12日,下 2.4月14日。1.4 1.6月14日。1.4 1.6月14日,月 2.6月14日,同 2.6月14日,日 2.6月14日,1.5	一月间接,都 一支有部,所 一支有部,面 一支有效。有 一支有效。有 一支有效。有	 (14)101, 101 (17)(14), 101 (16)(14), 101 (16)(14)	-1111.2 416 1046.4 -2144.1 461 1924.1 -2144.6 464 1924.1 -2145.1 471 1976.1 -2145.1 471 1976.2 -2145.1 471 1976.2
234e	6 743_2+24740 cm3_2+24740 743_2+24920 743_2+24920 743_2+24920 743_2+2490 743_2+25400 743_2+25400 743_2+25400	新春次郡、推 有外有有分子。在 有分别是有 不是公司 不是公司 不是公司 不是 百 百 百 百 百 百 百 二 章	↓↓···································	120155747 1362317 2362317 2467517 2467518 245515 2450815 2450815 2450815 2450815	 1.2月1日 1.2月1日	- 6.4 ² (m. 10) - 6.42 (14) (2) - 6.42 (14) (2) - 6.42 (14) (2) - 6.42 (14) (2) - 7.42 (14) (2) - 7.42 (14) (2) - 7.52 (24) (3) - 7.5	- 429 , 8 - 4424 , 9 - 6652 , 9 - 6552 , 9 - 6753 , 1 - 6754 , 2 - 6754 , 2 - 6754 , 5	2月前前時,時 2月前時間。 2月前時前,時 1月前時前,時 1月前時前,時 1月前日前 1月前日 1月前 1月前 1月前 1月前 1月前 1月前 1月前 1月前 1月前 1月前	2月700月1日 2019年4月1日 2019年4月1日 2018年2月1日 2018年2月1日 2018年4月1日 2018年4月 2018年4月	14626.7 21962.4 269462.4 269262.4 269262.4 269262.4 26926.1 2522	- 1 月前, - 2 月前, - 2 月前, - 1 112, - 1 112, - 1 114, -	 14107.8 17.16.1 16.1 16.1 16.2 16.4 17.1 16.4 17.1 16.4 16.4	-(1), 3 (4), 5 (5), 5 (
234e	6 745_2+287.40 (%)_2+287.40 (%)_2+282.00 (%)_2+282.00 (%)_2+282.00 (%)_2+282.60 785_2+282.60 785_2+266.05 (%)_2+266.05	的家口题。"题 我们会帮助。"等 我们会帮助。"等 我们们们,不可 了你的时候,要 问题,我们们 问题,我们们	[1] - 104 - 2016 200 2 2 m (2m), 50 2 100 2 4 x, 10 2 100 2 4 x, 10 2 1 m (2m), 50 2 1 m (2m), 50 2 1 m (2m), 50 3 4 2 0 m (12:15:47 13:12:5 13:12:5 13:12:5 14:15:6 24:15:6 24:15:6 34:15:7 34	 1.2010	一天来参考,道 一天天之书,是 一天天有书。有 一天子书,等 一下子书,等 一下子书。 一下子书。 一下子书。 一下子书。 一下子书。 一下一下一下一下一下一下一下一下一下一下一下一下一下一下一下一下一下一下一下	- 429 (1), 80 - 4424 (1), 90 - 46424 (1), 90 - 46424 (1), 90 - 46474 (1), 90 - 46474 (1), 90 - 7647 (1), 90	等成是精,可 。但我们的一个不可能。 你们就是你们的 我们就是你们的 我们就是你们的 我们就是你们的 我们就是你们的	当年7月時代,總 目前19月4日。 目前19月4日。 日本前年月1日。 日本前年月1日。 日本前年月1日。 日本前年前月1日 日本前月1日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日。 日本19月7日 日 日本19月71 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	10420-17 2144-24 2444-24 2444-24 2444-24 2444-24 2444-24 2524-25 2724-20 2724-20	-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	 > (410), 8 > (510), 9 > (460), 9	-(11) - 456 (2003.0) -(21)-(1) - 456 (2024.1) -(21)-(1) - 456 (2024.1) -(21)-(1) - 456 (2025.1) -(31)-(1) - 457 (2025.1) -(31)-(1) - 457 (2024.1) -(31)-(1) - 457 (2024.
234e	6 (143_2+24740 (143_2+24740 (143_2+24920 (143_2+24920 (143_2+25490 (143_2+25490 (143_2+25490 (143_2+25490 (143_2+25490 (143_2+2649) (143_2+2649)	45,10,10 57,67,10 67,67,2,1 69,70,2,2 7,20,2,2 7,20,2,0 7,20,0,0 7,20,0,0 7,20,0,0 7,20,00,00,00,00,00,00,00,00,00,00,00,00,	[2]一時再一定保護時 定点的記載。保 点面的記載。保 点面的記載。保 見不能記載。你 見不能知識。你 見一時的意思。你 見一時的意思。 算過於的意思。 算過於的意思。 算過於的意思。 算過於的意思。 算過於的意思。	1.2:1.5:47 (1.4:2.5.5) (1.4:2.5.7.2 (4.4:2.5.7.2) (4.4:4.4:5.7.2) (4.4:4.4:5.7.5) (4.4:4.6.7.5.5.4 (1.4:4.5.6.7.5.5.4) (1.4:4.5.6.7.5.5.4) (1.4:4.5.6.7.5.5.4) (1.4:4.5.6.7.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	 1.2.2.4.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	- 6.4 (54) - 6.4 (54) - 6.4 (54) - 6.4 (54) - 6.4 (54) - 7.4 (54) - 7.5 (64) - 7.5 (74) - 7.5	- A20, 8 - A20, 9 - A20, 9 - A20, 9 - A20, 9 - A20, 9 - 20,	26.24 · ··································	2月70月年,唐 2月15日(1月11日) 2月15日(1月11日) 2月16日(1月11日) 2月16日(1月11日) 2月16日(1月11日) 2月16日) 2月16日) 2月16日) 2月16日) 2月16日) 2月17日) 2月17日 2月17 2月17 2月17 2月17 2月17 2月17 2月17 2月17	10月23日,17 20月4日2月 20月4日2月 20月4日2月 20月4日2月 20月4日2月 2014日2月 2014日2月 2014日2月 2014日3月 2014 2014日3月 2014 2014日3月 2014 2014 2014 2014 2014 2014 2014 2014	-146, 0 +248, 0 +1242, 0 +1254, 1 +1254, 1 +1254, 1 +1364, 1 +1364, 7 +1662, 7	- 2410.8 - 27.15.9 - 3657.9 - 2528.8 - 2528.6 - 4191.0 - 4191.0 - 4191.0	-(11) 4 45k (2043) -75,4,5 451 (2024) -75,4,6 456 (2024) -75,4,6 456 (2024) -75,4,7 (2024) -75,3 477 (2025) -75,3 477 (2024) -746,2 459 (2024) -746,7 442 (2044) -746,2 454 (20
234e	6 745_2+247.40 751_2+247.40 751_2+247.40 751_2+245.40 751_2+27.400	的基本的。」「「「」」」	52-044-0630 52-024,0 3.0134,0 1.0254,0 1.0254,0 2.04945,0 3.44575,0 1.44475,0 2.44475,0 2.44475,0 2.4475,0	1201125247 (14225)7 15427517 15427517 15427517 15425517 154256 154256 154256 154256 154256 174288 174488 17	 1,200,20 1,200,20 1,21,30 1,21,30	- 4,45 4, 0 - 4,67 4, 2 - 4,67 4, 2 - 4,67 4, 2 - 4,67 4, 2 - 4,74 4, 2 - 4,74 4, 3 - 4,74 4, 4 - 7,74 5, 2 - 7,74 - 7 - 7,74 - 7 - 7,4 -	- A 2 2 4 - A 2 4	2.6.2.4.3.4 (1.4.2.2.4.4) (1.4.2.4.6) (1.4.2.4.6.4.5) (1.4.2.4.6.4.5.4) (1.4.2.4.6.5.4.5.6) (1.4.2.6.6.5.6) (1.4.4.6.6.5.6) (1.4.4.6.6.5.6) (1.4.4.6.5.6.6) (1.4.4.6.5.6.6) (1.4.4.6.5.6.6) (1.4.4.6.5.6.6) (1.4.4.6.5.6.6) (1.4.4.6.5.6.6) (1.4.4.6.6.6.6) (1.4.4.6.6.6.6) (1.4.4.6.6.6.6.6) (1.4.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	是军中的市场。唐 王子与马马王、马 王子与马马王、马 王子与马马王、梁 王子与马王、梁 王子与马王、马 王马马王、马 王马马马王、马 王马马马王、马 王马马马王、马 王马马马王、马	1440206,7 3440202,7 444022,4 5430306,4 1440306,1 152021,3 152041,9 152041,0 152041,0 154041,0 14404,0 14404,0 14404,0		 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	$\begin{array}{c} + [\frac{1}{2}]_{-1} - 4^{2}K & [-20]5, dt \\ + \sqrt{5}(4, -1) & -5(1 - 1)(24, -1) \\ + \sqrt{5}(4, -1) & -5(1 - 1)(252, -1) \\ + \sqrt{5}(4, -1) & -1(252, -1) \\ + 5$
234e	6 741_2-24736 (x1_2-24736 (x1_2-24736 (x1_2-24736 (x1_2-24736 (x1_2-24736 (x1_2-24736 (x1_2-24646 (x1_2-24646 (x1_2-24646 (x1_2-24646 (x1_2-24646) (x1_2-24666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-246666) (x1_2-2466666) (x1_2-2466666) (x1_2-2466666666666666666666666666666666666	周春後後、後 春秋時間、 春秋時間、 年 日月1日 日月1日 日月1日 日月1日 日月1日 日月1日 日月1日 日月	\$1-04-04930 52-04-04930 520-52-04 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-200-5 5-	12:15/247 13:42:05.17 14:42:05.17 14:42:05.2 14:42:05.2 14:42:05.2 14:42:05.2 14:42:05.4 14:42:05.4 14:42:05.514:42:45.5 14:42:45.5 14:42:45.5 14:42:45.514:45.5 14:45.514:45.5 14:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:45.5 14:45.5 14:45.514:5 14:45	+12000000000000000000000000000000000000	- 6.4 (- Agin a - Agin a - Agin b -	2.6.2.4.3.4 (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	2 年10月1日 2 年10月1日 2 日本(1)日 2 日 2 日本(1)日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2	1440206,7 3440202,7 444022,4 5430306,4 1440306,1 152021,3 152041,9 152041,0 152041,0 154041,0 14404,0 14404,0 14404,0		 1) 41 (0), 8 1) 1, 4, 8 1) 1, 4, 8 1, 6, 6, 9 1, 7, 4, 6 1, 7, 4, 8 1, 4, 1, 5 1, 4, 1, 54 1, 4, 1, 54 1, 4, 2, 54 1, 4, 4, 54	$\begin{split} &-\frac{1}{24} [1, -1, -456, -\frac{1}{2} (-365, -\frac{1}{2} (-356, -\frac{1}{2} (-356, -\frac{1}{2} (-356, -\frac{1}{2} (-566, -$
234e	6 743_2+24736 743_2+24736 744_2+24736 744_2+24736 744_2+24736 744_2+24546 745_2+24546 745_2+24546 745_2+24546 745_2+24546 745_2+2456	的高度高。推 高度高度。推 高度的高度。 高度的高度。 在 高度的高度。 高度 高度。 高度 高度。 高度	\$1-04-04930 52-04-04930 520-52-04 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-220-5 5-200-5 5-	12:152:47 146:25:17 146:25:17 146:25:17 146:25:17 24:14:25:15 146:25:15 146:25:15 146:25:16 11:17 14:16:25:16 11:17 14:16:25:16 11:17 14:16:25:16 14:16:16 14:16:1	$\label{eq:constraints} \begin{array}{c} \mathbf{v}_1, \mathbf{z}_2, \mathbf{z}_3, \mathbf{z}_4, \mathbf{z}_4, \mathbf{z}_5, \mathbf{z}_6, $	- 4.4 (m. 2) -	- 南原語、原 - 南原語、原 - 南原語、原 - 南原語、 - 田田市人工会 - 田田市人工会		1 年7月時代,應 1 年7月時代,應 2 年5月時代, 2 年5月時代, 2 年6月時代, 2 年6月時代, 2 年6月時代, 2 月時時代, 2 月時時代, 3 月時時代, 3 月時時代, 3 月時時代, 3 月時 3 月時代, 3 月時	144226.7 144922.4 144922.4 14492.4 14492.4 14492.5 14025.5 17244.5 17244.5 17244.5 19245.5 14025.5 14025.			$\begin{split} &+ [\frac{1}{4}]_{-1} - 4^{2} K_{-} - [2005, d] \\ &+ (50, 4) - 1541 - [2024, -1] \\ &+ (50, 4) - 1541 - [2024, -1] \\ &+ (50, 4) - 1571 - [2027, 1] \\ &+ (50, 4) - 1571 - [2027, 1] \\ &+ (50, 4) - 1571 - [2027, 2] \\ &+ (50, 4) - 1571 - [2027, 2] \\ &+ (50, 4) - 1571 - [2027, 2] \\ &+ (50, 4) - [2027, $
234e	6 741_2-24348 741_2-24348 741_2-24348 741_2-24328 741_2-24328 741_2-24328 741_2-24388 741_2-24488 741_2-24438 741_2-24438 741_2-24439 741_2-24439 741_2-24439 741_2-24439 741_2-24439	的表示我,这 有人的人,这 有人的人,这 有人的人,这 有人的人,这 有一个人,这 有一个人,这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 有一个人, 这 书 一 个 个 个 个 个 个 个 书 个 个 书 个 书 书 书 书 书 书	51-04-0410 52-04-0410 52-04-04 5224-14 5224-17 5424-14 5424-14 54475-15 144246-1 14475-14 14475-16 144022.6 15112.7 1513-14 1553-155-155 1553-1555-155 1553-1555-1555-1555-1555-1555-1555-1555	1201152241 11442431 11442431 1442432 1442432 1442432 1442432 1442432 1442432 1442432 1442432 1442433 1442433 1444434 1444434 1444433 1444434 1444434 1444434 1444434 1444434 1444434 1444434 144443 144443 144434 144444 144434 1444444	$\label{eq:constraints} \begin{array}{c} +1 \\ +1 \\ +2 \\ +2 \\ +2 \\ +2 \\ +2 \\ +2 \\$	- 6 4 5 4 5 . 0 - 6 4 5 4 5 . 2 - 6 4 5 4 . 2 - 6 4 5 4 . 5 - 6 4 6 5 . 7 - 6 4 6 5 . 7 - 7 5 4 5 . 3 - 7 5 4 5 . 4 - 7 5 4 6 . 5 - 7 5 . 5 -	- Agen 18 - Agen 18 - Agen 19 - Agen 18 - Agen 19 - Agen 19	2624,9 (1982),0 (1992),0 (2975),0 (2975),0 (2982),0 (2982),0 (2982),0 (1982),0	1470)%, # 1655(2); 25,455;25 25,455;25 25,455;25 25,465;25 25,465;25 24,4557;45 24,4557;45 24,4557;45 24,4557;45 25,25;45 27,752;45	164200.7 37942.4 164492.4 164492.4 166492.1 1221.1 17442.0 17740.4 29740.4 29740.4 29740.4 29740.5 29740.5 29655.9	- 1 446、4 - 1 446、4 - 1 5432、4 - 1 5432、4 - 1 5434、7 - 1 5434、7 - 1 5434、7 - 1 5434、7 - 1 5434、7 - 1 5434、4 - 1 5444、3 - 1 5444、3	- 14193.8 - 11.163.9 - 1.663.9 - 1.663.9 - 12.063.6 - 42.051.6 - 42.051.6 - 42.051.6 - 42.052.6 - 42.052.5 - 42.052.5 - 42.052.5 - 42.052.5	- (12), 7 47% [2045,0 - (24), 7 47% [2045,0 - (24), 6 454 [2045,1 - (24), 7 475 [1946,2 - (24), 7 475 [1946,2 - (24), 7 477 [1946,2] - (24)
234e	6 743_2+24736 743_2+24736 744_2+24736 744_2+24526 744_2+24526 744_2+24546 744_2+245666 744_2+24566 744_2+24566 745666 745666 745666666 745666666666666666666666666666666666666	的东西境、进 有市场的公司。 有市场公司。 有市场公司。 有市场公司。 有市场公司。 有量等。	\$1-04-0000 \$2000,0	12:15/47 14:52:17 14:16/25:17 14:16/25:17 14:16/25:17 24:16:16 24:16/25:17 14:16/25:18 1	$\label{eq:constraints} \begin{array}{c} v_1 \\ -v_2 \\ -v_3 \\ -v_4 \\ +v_5 \\ +$	- 6.4 (9.5) - 6.4 (9.5) - 6.4 (9.5) - 6.4 (9.5) - 6.4 (9.5) - 7.5 (2.6) - 7.5 (2.6) - 7.5 (2.6) - 7.4 (9.6) - 7.4		2. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	14703.0 15703.0 15512.5 22.4052.0 116653.2 16613.4 16653.4 16653.4 16653.4 16653.4 16653.4 16653.4 16653.4 16653.4 16732.4 16732.4 17732.4 17732.4	1 44200.7 2 44902.4 3 64942.4 3 64942.4 1 64945.4 1 5221.5 1 72642.0 2 72642.0 4 72642.6 2 8692.5 2 8692.5 2 86625.9 2 86625.9	$= \frac{1}{2} \frac{4}{36} \frac{1}{66} + \frac{1}{2} \frac{1}{36} \frac{1}{56} + \frac{1}{2} \frac{1}{36} \frac{1}{56} + \frac{1}{2} \frac{1}{36} \frac{1}{56} + \frac{1}{2} \frac{1}{566} \frac{1}{56} + \frac{1}{2} \frac{1}{566} \frac{1}{56} + \frac{1}{2} \frac{1}{566} \frac{1}{56} - \frac{1}{2} \frac{1}{566} \frac{1}{56} \frac{1}{56} - \frac{1}{566} \frac{1}{566} - \frac{1}{$	- 14107.8 - 17.86.7 - 1.66.9.9 - 1.64.9.9 - 2.924.9.4 - 2.924.9.4 - 2.924.9.4 - 2.924.9.4 - 2.924.9 - 4.924.9 - 4.924.9 - 4.924.9 - 6.924.9 - 7.944.9 -	- (13), 7 4% (1005.0 - (13), 7 4% (1005.0 - (14), 8 48 (19), 7 48, 1 - (14), 8 48 (19), 7 48, 1 - (14), 1 47, 1 - (14), 1 47, 1 - (14), 1 47, 1 - (14), 1 - (
234e	6 Tell _ 2 - 2 47 40 Tell _ 2 - 2 47 40 Tell _ 2 - 2 47 40 Tell _ 2 - 2 47 20 Tell _ 2 - 2 40 Tell _ 2 - 2 7 10 Set _ 2 - 2 7 7 10 Set _ 2 - 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	85.16.0 65.65.0 65.65.0 7.15.0 7.15.0 7.15.0 7.16.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	51-04-0000 52-024.0 52-014.0 1-0249.7 1-0249.7 1-0249.5 1-0249.5 1-0249.5 1-0249.5 1-0249.5 1-0249.5 1-022.5 1-021.9 1-021.5 1-021.5 1-021.6	12:15/247 14:15/25/7 14:16/2	$\label{eq:product} \begin{array}{c} +1 \\ -2 \\ -2 \\ -2 \\ -1 \\ -1 \\ -1 \\ -1 \\ -$	$\begin{array}{c} -4, d_{1}^{-1}(\theta_{1}, 0)\\ -4, d_{2}^{-1}(\theta_{1}, 0)\\ -4, d_{1}^{-1}(\theta_{1}, 0)\\ -4, d_{1}^{-1}(\theta_{1}, 0)\\ -4, d_{1}^{-1}(\theta_{1}, 0)\\ -4, d_{1}^{-1}(\theta_{1}, 0)\\ -4, d_{1}^{-1}(\theta_{2}, 0)\\ -4, d_{1}^{$	- 4 (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	24,24,94 (14)(4),45 (14)(14)(4),45 (14)(14)(14)(14)(14)(14)(14)(14)(14)(14)	242036.0 242036.0 25342.5 2542.5 25482.5 25482.5 14683.6 14683.6 14683.6 24653.6 24653.6 24732.6 24	14420.7 24942.4 44449.4 44449.4 144696.4 1521.5 1521.5 17246.9 27240.4 19246.9 19240.5 24055.9 24055.9 24055.9 24055.9	- 1 46, 8 - 2 46, 1 - 2 102, 6 - 2 102, 6 - 2 106, 7 - 1 56, 7 - 1 56, 7 - 1 60, 8 - 2 104, 1 - 2 104, 1 - 2 104, 3 - 2 104, 5 - 2	$ \begin{array}{c} -1.54107.8\\ -1.7.86[7]\\ -1.66[7],9\\ -0.5928,4\\ -0.5928,4\\ -0.5928,4\\ -0.5928,4\\ -0.5928,4\\ -0.5928,4\\ -0.6727,0\\ -0.6727,0\\ -0.6727,0\\ -0.6727,0\\ -0.6723,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.68664,9\\ -0.6923,1\\ -0.$	- (13), 7 4% (1005.0 - (13), 7 4% (1005.0 - (14), 8 48 (19), 7 48, 1 - (14), 8 48 (19), 7 48, 1 - (14), 1 47, 1 - (14), 1 47, 1 - (14), 1 47, 1 - (14), 1 - (
234e	6 745_2-24740 745_2-24740 755_2-24740 755_2-24740 755_2-2110 755_2-2110 755_2-224000 755_2-224000 755_2-224000 755_2-22400 755_2-22400 7	的表示描述。 有人的人, 有人的人。 有人的人 有人的人 有人的人 有人的人 有人的人 有人的人	[:	12:15/247 140/25:17	$\label{eq:constraints} \begin{array}{c} \mathbf{v}_{1} \\ \mathbf{z}_{2} \\ \mathbf{z}_{3} \\ \mathbf{z}_{4} \\ \mathbf{z}_{4} \\ \mathbf{z}_{4} \\ \mathbf{z}_{5} \\ z$	- 4.4.5 (4), 2 - 4.4.5 (4), 2 - 4.4.5 (4), 4 - 4.4.5 (4), 4 - 4.4.5 (4), 4 - 4.5.5 (4), 4 - 4.5.5 (4), 4 - 4.5.5 (4), 4 - 4.5.5 (4), 4 - 4.5.5 (4), 4	- 1(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(2.《读书》 《读书》 《读书》 》 《读书》 《读书》 《读书》 《读书》 《读书	247036.0 247036.0 25512.5 25455.2 25455.2 25455.2 25455.2 244555.0 244555.0 244555.0 245555.000000000000000000000000000000000	1 (4000)7 2 (4000)7 3 (4000) 1 (4000)7 1 (4000)7 1 (4000)7 1 (2000)7 1 (200)	$= \frac{1}{2} + $	 - 14117.8 - 1, 4637.9 - 1, 4637.9 - 1, 4647.9 - 2525.9 - 2055.9 - 46562.3 - 465624.7 - 465624.3 	- (11), 7 4% (1985,0 - (24,1), 84% (1985,0 - (24,2), 84% (1985,0) - (24,2), 84% (19
234e	6 701 (2 - 247 44) 702 (2 - 247 14) 703 (2 - 246 14) 703 (2 - 247 14) 703 (2 - 247 14) 703 (2 - 247 14)	66.78.07 6.969.27 6.969.24 7.15.95.24 7.16.95.24 7.16.95.24 7.16.95.2 7.16.95.2 7.16.95.2 7.16.95.2 7.27.95.2 7.26.95.2 7.27.95.27.27.05.27.27.05.27.27.05.27.27.05.27.27.05.27.27.05.27.27.05.27.27.05.27.05.27.05.27.05.27.05.27.05.27.05.27.05.27.05.27.05.27.05.27.05.	11-08-0010 12-08-0016 13-014-0 1-12-08-7	12:11 (57:43) 13:40:05,51 13:40:75,72 13:40:75,72 14:40:75,72 14:40:75,72 14:40:45,74 14:40,74 14:40,74 14:40,74 14:40,74 14:40,74 14:40,74 14:40,74	1.111月一日、1月1日、1月1日、1月1日、1月1日、1月1日、1月1日、1月1	$\begin{array}{c} -a_{0}^{-1}c_{1}^{-1}c_{2}^{-1}c_{3}^{-1}c_{4}^{-1}c_{3}^{-1}c_{4}^{-$	- 4 (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	24,24,94 (14)(4),45 (14)(14)(4),45 (14)(14)(14)(14)(14)(14)(14)(14)(14)(14)	242036.0 242036.0 25342.5 2542.5 25482.5 25482.5 14683.6 14683.6 14683.6 24653.6 24653.6 24732.6 24732.6 24732.6 27772.6 27772.7 27772.6 27772.7 27772.7 27772.7 27772.7 27772.7 27772.7 27	1420.7 2492.4 44949.4 44499.4 44499.4 14479.4 1521.5 1524.5 19745.9 19745.6 19745.6 19745.6 19745.6 19745.5 19955.9 19955.5 19955.5 19955.5 19955.5 19955.5 19955.5 19955.5 19955.5	- 1 46, 8 - 2 46, 1 - 2 102, 6 - 2 102, 6 - 2 106, 7 - 1 56, 7 - 1 56, 7 - 1 60, 8 - 2 104, 1 - 2 104, 1 - 2 104, 3 - 2 104, 5 - 2	- 124 (U. 8) - 17 (16) - 163 (16) - 163 (16) - 125	- (1), 7 4% (2008.0 -23,4), 8 450 (2008.0 -164,8), 846 (1), 448,1 -164,8, 846 (1), 448,1 -164,9, 1041 (2008.0 -176,9, 842 (1043.0 -176,9, 842 (1043.0)))))))))))))))))))))))))))))))))))
234e	6 (4) (4) (4) (4) (4) (4) (4) (4)	66.78.07 6.6969.17 6.969.24 7.15.95.24 7.15.95.24 7.16.95.2 7.16.95.2 7.16.95.2 7.16.95.2 7.16.95.4 16.25.2 7.26.45.4 11.25.45.4511.25.45.45 11.25.45.4511.25.45.45.45.4511.25.45.45	11-04-2010 12-04-2010 1-014-31 1-2210-7 1-	12:11 (2 + 4) 13:41 (2 + 3) 13:42 (2 + 3) 13:42 (2 + 3) 14:42	$ \begin{array}{c} -1 \\ + 1 \\ + 2 \\$	$\label{eq:constraints} \begin{array}{c} -a_{1}c_{1}^{2}c_{1}^{2}, 0 \\ -a_{2}c_{1}^{2}c_{1}^{2}, 1 \\ -a_{2}c_{1}^{2}c_{1}^{2}, 1 \\ -a_{2}c_{1}^{2}c_{2}^{2}, 1 \\ -a_{2}c_{1}^{2}c_{2}^{2}, 1 \\ -a_{1}c_{1}^{2}c_{2}^{2}, 0 \\ -a_{1}c_{1}^{2}c_{2}^{2}, 0 \\ -a_{1}c_{1}^{2}c_{2}^{2}, 0 \\ -a_{1}c_{1}^{2}c_{2}^{2}, 0 \\ -a_{1}c_{2}^{2}c_{2}^{2}, 0 \\ -a_{1}c_{2}^{2}c_{2}, 0 \\ -a_{1}c_{2$	$\label{eq:constraints} \begin{split} & - h_{0}(x_{1},y_{1},y_{2},y_{3}$	2. (1) (1) (1) (2) (1) (2) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	4705,8 405-43 105-32 104-35 104-45 104-45 104-45 104-45 104-45 104-45 104-55	144200.7 24942.4 (64)40.4 (64)49.7 14670.4 1521.5 17645.1 17645.1 17645.9 19645.0 19645.0 19655.1 19655.1 19655.1 19655.1 19655.1 19655.1 19655.1 19655.1 19655.1 19655.1 19655.1	 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	- 14100.8 - 17.96(7).9(7) - 165(7).9(7) - 7.9(7).9(7) - 9.9(7).9(7) - 9.9(7) - 9	-(11), 4 476, 1945,0 -(24,1), 4 476, 1945,0 -(24,1), 4 481, 1945,0 -(44,1), 4 41, 1945,0 -(44,1), 4 41, 1945,0 -(44,2), 4 440, 1945,0 -(44,2), 4 440, 1945,0 -(44,2), 4 494,0 -(44,2), 4 494,0 -(44,2), 4 41,4 -(44,2), 4 41,4 -(44,2),4
234e	6	的表示的人, 有一个人, 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	11-04-2010 12-04-2010 13-010-0-1 1-050-0-	12:11 (2 - 47) 12:12 (2 - 5) 13:12 (2 - 5) 13:12 (2 - 5) 14:12	1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、	$\label{eq:constraints} \begin{array}{c} -i & d \in [0, 1] \\ -i & d \in [0, 1] \in \mathbb{R} $	 (成)、市 (市)、市 (市)、 <	有效的。 有 例 一 有 一 有 一 有 一 有 一 一	14705.8 1455.4.5 1455.4.5 1554.5.0 1564.5.2 1564.5.2 1664.5.2 1664.5.4 1665.6 1665.6 1665.6 1665.6 1675.6 1675.6 1675.6 1775.2 1675.6 1775.2 1775.2 1775.2 1794.6 1705.0 1775.2 1794.6 1705.0 1775.2 1704.5 1704.6	14A20.7 14A20.7 14A20.4 14A40.4 14A40.4 14A40.4 14A40.4 1421.4 1424.4 1424.4 1424.4 1424.4 1444.4	- (46,4), (4,5), (4	- i 4 10.8 - 4 1.98 - 1.98 - 1.98 - 1.92 - 1.92	- (1), 7 4% (905.0 - (2), 4 (3) 1924.4 - 2), 4 (3) 1924.4 - 2), 4 (3) 1924.4 - 2), 4 (3) 1944.1 - 1944.1 - 1944.2 - 1944.2 - 1944.4 - 1944.2 - 1944.4 - 1944.2 - 1944.4 - 1944.2 - 1944.4 - 1944.2 - 1944.4 - 1944.2 - 1944.4 - 1944.2 - 194
234e	6	的表示的人, 有一个人, 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	11-04-2010 12-04-2010 13-010-0-1 1-050-0-	12:11 (2 - 47) 12:12 (2 - 5) 13:12 (2 - 5) 13:12 (2 - 5) 14:12	1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、	$\begin{array}{c} -4d^{2}d_{1}d_{2}, \\ -4d^{2}d_{1}d_{1}d_{2} \\ -4d^{2}d_{1}d_{1}d_{1}d_{1} \\ -4d^{2}d_{1}d_{1}d_{1}d_{1} \\ -4d^{2}d_{1}d_{2}d_{1}d_{1}d_{1}d_{1}d_{1}d_{1}d_{1}d_{1$	·我们的一个,我们的一个,我们的一个,我们的一个,我们的一个,我们的一个,我们的一个,我们的一个,我们们的一个,我们们的一个,我们们的一个,我们们的我们的我们的,我们们的我们的,我们们的我们的,我们们	$\begin{array}{l} g_{A}(\mathbf{x}_{1}), \\ (-1)^{-1}(\mathbf{x}_{2}), \\ (-1)^{-1}(\mathbf{x}_{2})$	14705.4 1455.4 1455.4 1455.4 1454.4 144	14420.7 (4422.4 (6435.4 (44394.) (44394.) (44394.) (1421) (1244.) (1	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	- 4419.8 - 11.637.9 - 1.637.9 - 1.758.9 - 1.758.9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 741 24 (44) 741 24 (43) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 24 (14) 745 - 24 (14)	的表面的一个, 有一个, 有一个, 有一个, 有一个, 有一个, 有一个, 有一个, 有	11-06-2010 12-06-2010 13-014-0 1-05-04 1-05-	12:11 (5 × 4) 13:12 (5 × 4) 14:12 (5 × 1) 14:12	- 一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、	$\label{eq:constraints} \begin{array}{c} -4 + 4 + 4 \\ -4 + 4 + 1 \\ -4 + 1 \\ -4$	$\begin{split} & - i_{A}(y_{1},y_{2},y_{3$	有效通道。 一个问题是是一个问题是一个问题是一个问题是一个问题是一个问题是一个问题是一个问题	17205.0 1725.0 1725.0 1725.0 1726.0 1726.0 1726.0 1726.0 1726.0 1726.0 1726.0 1726.0 1720.	14420.7 1442.4 (4)435.4 (4)435.4 (4)435.4 (4)435.4 (4)435.4 (4)435.4 (4)435.4 (4)435.4 (4)435.4 (4)45.5 (4)4	(4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	$\label{eq:constraints} \begin{split} &+i \{t, t_i, t_i, t_i, t_i, t_i, t_i, t_i, t_$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 941 (2-247) 941 (2-247) 941 (2-249) 941 (2-249) 941 (2-249) 941 (2-24) 941 (2-24)	$\begin{array}{c} \phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}$	11-06-2010 12-06-2010 13-018-0 1-018	1211.0.44 - (4.6.6.5 - (4.6.6.5 - (4.6.7.5 - (4.6.7.5)) - (4.6.7.5) - (4.6.7.5)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\label{eq:constraints} \begin{array}{c} -4 d c^2 d a_1 \\ -4 d c^2 d a_1^2 \\ -4 d$	- 4.4(1)()、()、()、()、()、()、()、()、()、()、()、()、()、	有效要求。 一个公司有关于, 一个公司有关于 一个公司有关于, 一个公司有关于 一个公司 一个公司 一个公司 一个公司 一个公司 一个公司 一个公司 一个公司	14705.6 1455.6 1455.6 1456.6 1466.6 1466.6 1466.6 1466.6 1466.6 1466.6 1466.6 1475.6 1466.6 1475.	14420.7 1442.4 14445.4 14445.4 14445.4 14		$\label{eq:constraints} \begin{split} &-i \{ t t , 0 \} \\ &-i \{ t , 0 \} \} \\ &-i \{ t , 0 \} \} \\ &-i \{ t , 0 \} \} \\ &-i \{ t \} \\ &$	- 113.7 4766 (905.0 -244.1 517) -244.1 517 -244.1 5
234e	6 () () () () () () () () () () () () ()	$\begin{array}{c} \phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}\phi_{0}$	11-06-2010 12-06-2010 13-018-0 1-018	11 (15 - 47) 14 (15 - 47) 14 (15 - 57) 14	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\begin{split} -647 + 6_1 G \\ -657 + 1_1 + 6_1 \\ -677 + 1_1 + 6_1 \\ -677 + 1_2 + 1_1 \\ -1111 + 1_$	- 4.4(1)()、()、()、()、()、()、()、()、()、()、()、()、()、	有人的人, 一个人的人 一个人的人, 一个人, 一个人 一个人 一个人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人 一一人	14705-0- 14505-0- 1450-0- 1	14420.7 1442.4 1445.4 1445.4 1445.4 1445.4 1415.1 1412.1 1412.1 1412.1 1412.1 1412.1 1412.1 1412.1 1412.1 1412.1 1412.4 1414.4 1414.4 1414.4 1414.4 1414.4 1414.4 1414.4 1414.4 1414.4 1	$= (A_{ij}, A_{ij}, A_{ij}) + (A_{ij}, A_{ij}) + ($	$\label{eq:constraints} \begin{split} &-i(21), \\ &+i(-i,0), \\ &+i(-i,0)$	- 113.7 4766 (905.0 -244.1 517) -244.1 517 -244.1 5
234e	6 (m) 2-247440 (m) 2-247440 (m) 2-247440 (m) 2-247440 (m) 2-24840 (m) 2-248400 (m)	$ \begin{array}{c} \phi_{0} \phi_{0} \phi_{0} & (0, 1) \\ \phi_{0} \phi_{0}$	11-04-2010 12-04-2010 12-044-0 1-214-1 1-214	1415-44 14656-5 14665-5 14665-5 246555-5 24655-5 24	$\label{eq:2} \begin{split} & -2 + i + i + i + i + i + i + i + i + i + $	$\label{eq:constraints} \begin{split} &-iedeterministic O \\ &-iedeterministi $	- 我们的原因,我们的原因,我们的原因,我们的原因,我们的原因,我们的原因。 - 我们有什么?" - 我们的原因,我们们的原因,我们们的原因,我们们的原因。 		470%, # 170%, # 170%, # 170%, # 176%, # 177%, # 177%, # 176%, # 177%, # 176%, # 176	14420.7 1492.4 14945.4 14945.4 14945.4 14945.4 14945.4 12974.4 1297	$= \{ x_i \in [1, 1], \dots, [n] \in [n] \}$	- (4)11, 8, 7 - (4)11, 8, 7 - (4)11, 8, 7, 9 - (4)1, 8, 7, 9 - (4)1, 9, 1, 4 - (4)1, 9, 1, 4 - (4)1, 1, 5 -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 () () () () () () () () () () () () ()	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	11-04-2010 12-04-2010 12-04-4-0 1-210-7 1-200-7 1-20	11115-44 14645-51 14645-52 14645-72 14655-72 14655-72 14655-72 14655-72 14655-72 14655-72 146555-72 14655	$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 1 \\ 1 \\ 1 \\$	$\label{eq:constraints} \begin{split} & -6.4 < 6.0 \\ & -6.4 < 6.0 \\ & -6.4 < 6.0 \\ & -6.4 < 6.0 \\ & -6.4 < 6.0 \\ & -6.4 < 6.0 \\ & -6.4 \\ & -$	$\begin{split} & - \frac{1}{4\sqrt{2}} (y_{i}, \phi_{i}, \phi_$	2424,9 -(122),- -(122),- -(125	170%, # 170%, # 170%, # 170%, # 170%, # 170%, # 180%, # 180%, # 180%, # 180%, # 180%, # 190%, # 190	144,20,7 144,22,4 144,450,4 14	$\label{eq:constraints} \begin{split} & -1 \leq 1 $	$\label{eq:constraints} \begin{split} &-i_1^{-1}(u_1^{-1}),\\ &-i_1^{-1}(u_1^{-1$	- 113.7 44% (905.8 - 224.1 54% (905.9 - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.1 54% (905.9) - 224.
234e	6 7 7 7 7 7 7 7 7 7 7 7 7 7	$\begin{split} \theta_{0}(q_{1})^{-1} &= & h_{0}(q_{1})^{-1} \\ &= & h_{0}(q_{2})^{-1} \\$	11-04-2010 12-04-2010 12-04-0 1-210-1 1-210-	1115-44 14658-5 146953-1 146953-1 146953-1 14695-7-2 14595-7	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\begin{array}{c} -4e^{2} + 6_{1} & (3) \\ -4e^{2} + 6_{2} & (3) \\ +4e^{2} + 1 & (4) \\ +4e^{2} + 1 & (4) \\ +4e^{2} + 1 \\ +4e^{$	$\label{eq:constraints} \begin{split} & - i \Delta_{0} (b_{1}) \partial_{0} + \partial_{0} \partial_{0} \partial_{1} \partial_{1}$		470%,# 10%,4,2 10%,	14420.7 1442.4 1445.4 1445.4 1445.4 1445.4 1445.4 1455.41455.4 1455.41455.4 1455.4 1455.41455.4 1455.4 1455.41455.4 1455.4 1455.41455.4 1455.41455.4 1455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.41455.4 1455.4145.4 1455.4145.4 1455.4140	$\label{eq:constraints} \begin{split} & -1 \leq i \leq j \leq j$	$\label{eq:constraints} \begin{split} &-i(z) z_1 (z_1, z_2, z_1, z_1, z_1, z_2, z_1, z_1, z_1, z_2, z_1, z_1, z_1, z_1, z_1, z_1, z_1, z_1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (m) 2-247.40 (m) 2-248.10 (m) 2-248.10	$\begin{split} & 6 - 6 + 0 \\ & 6 + 6 + 0 \\ & 6 + 6 + 0 \\ & 6 + 6 + 0 \\ & 6 + 6 + 0 \\ & $	$\begin{array}{c} 11-04-2-2010\\ 12-04-2-2010\\ 12-04-0,\\ 1-0210-7,\\$	11 (1) (2) (4) 14(4) (2) (1) 14(4) (2) (1) 14(4) (2) (2) 14(4)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\label{eq:constraints} \begin{array}{c} -6.4 < 6, 0 \\ -4.4 < 6.4 \\ +1.4 \\ +$	$\begin{split} & - h_{0}(y_{1}, y_{2}, y_{3}, y_$	244.4.9 -1-10.62,,	470%,# 10%,21%, 10%,21%, 10%,21%, 10%,21%, 10%,21%, 11%,21%,21%,21%,21%,21%,21%,21%,21%,21%,	14420.7 1442.4 1442.4 1446.5 1446.4 1467.4 147.4	$\label{eq:constraints} \begin{split} &= (1-1)^{-1} (1-$	$\begin{split} &-i(x_1,y_1,y_2,y_1,y_2,y_1,y_1,y_2,y_1,y_1,y_2,y_1,y_1,y_1,y_1,y_1,y_1,y_1,y_1,y_1,y_1$	- 113.7. 41% [1045.8 - 244.1. 8 - 244.1
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & 6 + i (2, 1) \\ & 1 + i (2, 1) \\ & $	11-04-2010 12-04-2010 12-044-0 1-220-7 1-200-7 1-200	12:13 5-43 14:45 6-5 14:49:25,7 14:49:45,2 14:49:4	1.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	$\begin{array}{c} -4e^{-i\phi_{1}} (g_{1},g_{2})\\ -4e^{-i\phi_{1}} (g_{1},g_{2})\\ +4e^{-i\phi_{1}} (g_{1},g_{2})\\ +4e^{-i\phi_$	- 4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	244.9 -(122), -(-), -(122), -(-), -(103), -(-),	170%, # 170%, # 170%, 1 170%,	$\begin{array}{c} 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D}, A_{A} \\ 1 < A_{A,D} \\$	$\begin{array}{c} (A,B,B,B,C) = (1,1,2,2,2,3,1,2,2,2,2,2,2,2,2,2,2,2,2,2,$	$\begin{split} &-4 2 x _{2}\\ + 1 - x _{2} 1- x _{2}\\ + 1 - x _{2}\\ + 1 - x _{2}\\ + 1 - x _{2}\\ + 1 - x _{2}\\ + 1 - x _{2}\\ + 1 - x _{2}\\ + 1 x _{2}\\ + 1 x _{2}\\ + $	- 113.7 4% (1945.8 - 124.7 4% (1945.9 - 124.7 4% (1945.9 - 124.7 4% (1945.9 - 124.7 4% (1947.9 - 124.
234e	6 (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & 6 + i (k, 1) \\ & 6 + i (k, 2) \\ & 1 + i (k, 2) \\ & $	$\begin{array}{c} 11-04-2,0110\\ -04-2,0110\\ -01,014,-1\\ 1-2,0,0,0\\ 1-2,0,0,0\\ -0,0,0\\ -0,0,0\\ -0,0,0\\ -0,0,0\\ -0,$	12 (15 / 47) 14 (15 / 47) 14 (17 / 47) 14	1.2.1、1、1、2、2、3、1、1、2、4、1、1、1、2、4、1、1、1、1、1、1、1、1、1、1、1	$\begin{array}{c} -4e^{2}e^{2}, \\ -4e^{2}e^{2}, \\ +4e^{2}, \\ +4e^{$	$\label{eq:constraints} \begin{split} & - i_{0} (\lambda_{0}, \mu, \eta) \\ & - i_{0} (\lambda_{0}, \mu) \\ & - i_{0} (\lambda_{0$	2424.9 -1-1222.5 -1-1222.5 -1-1222.5 -1-1225.5 -1-1255.5	470%,# 10%,42	$\begin{array}{c} 1 < 4 < 2 , 0 \\ 1 < 4 < 2 , 0 \\ 1 < 4 < 2 , -4 \\ 1 < 4 \\ 1 < 4 < -5 \\ 1 < 4 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ $	$\label{eq:constraints} \begin{array}{c} -1 \leq i \leq j \leq i \leq j \leq j \leq j \leq j \leq j \leq j \leq j$	$\label{eq:constraints} \begin{split} &-c_1^2(x), \\ &-c_1^2, \\ &-c_1^2, \\ &-c_2^2, \\ &-c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	统制建设,并且 有效的1.2 公司 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	$\label{eq:constraints} \begin{split} &(1-04-2010) \\ &(1-04-2010) \\ &(1-040-2010) \\ &(1-0$	11115-43 14648-55 14649-57 14649-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\label{eq:constraints} \begin{array}{c} -6.4 < -6.4 \\ -6.4 < -6.4 \\ -6.4 < -6.4 \\ -6.4 < -6.4 \\ $	$\label{eq:constraints} \begin{split} & - \frac{1}{4} \int_{-\infty}^{\infty} \int_{-\infty$	$\label{eq:2.1} \begin{array}{l} 24(4,9) \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -$	$\label{eq:constraints} \left\{ \begin{array}{l} c_1 \circ v_0 s_{i, j, k} \\ c_1 \circ v_1 \circ v_1$	14.4.2.0.7 14.4.2.4 14.4.2.4 14.4.2.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.4 14.4.4.5.5 14.4.5.5.5.5 14.4.5.5.5.5 14.4.5.5.5.5 14.4.5.5.5.5 14.4.5.5.5.5.5.5.5 14.4.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	· · · · · · · · · · · · · · · · · · ·	$\begin{split} &+(4)\pi_{1}^{2} \\ &+(1)\pi_{1}^{2} \\ &+$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (() () () () () () () () () () () () ($\begin{split} & \phi_{0,0}(x) = f_{0,0}(x) + f_{0,0}(x) +$	11-04-2010 12-04-2010 12-014-0 1-220-7 1-200-7 1-200	12 (15) - 47 14(9) - 57 14(9) - 57 14(9	1. 2. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{c} -4 < + 6 \\ -4 < < + 6 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1 \\ -4 < + 1$	- "我们的一个,我们们的一个,我们们就是我们的一个,我们就是我们的人们就是我们们就是我们们就是我们们的一个,我们们就是我们们的人们就是你们的人们就是你们的人们就是你们的人们就是你们们就是你们们的人们就是你们们们就是你们们们们就是你们们们就是你们们们们们们就是你们们们们们们们们	2444.9 - 1.122.4 - 2.122.4 - 1.122.4 - 1	1795,8 159,4,3 159,4,3 159,4,3 159,4,3 159,4,4,4 159,4,4,4 159,4,4,4,4,4,4 159,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	144420.7 14442.4 14442.4 14442.4 14442.4 144440.4 1	$\label{eq:second} \begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\begin{split} &-4 4 x _{0}^{2} \\ +1 - 4 ^{2} \\ +1 - 4 ^{2} \\ +2 - 2 4 4 ^{2} \\ +2 - 2 4 ^{2} \\ +2 - 2 4 ^{2} \\ +2 - 2 4 ^{2} \\ +2 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (() () () () () () () () () () () () ($\begin{split} & 6 + i e_{1} (0, 1) \\ & 6 + i e_{2} (0, 1) \\ & 6 + i e_{2} (0, 1) \\ & 6 + i e_{2} (0, 1) \\ & 1 + i e_{2} (0, $	$\begin{array}{c} 11-04-2,0110\\ -104-2,0110\\ -1012,014,-1\\ -1212,0,-2\\ -1142,$	12 (15, 7, 4) 13 (9, 9, 7) 13 (9, 7), 7) 14 (9,	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$\label{eq:constraints} \begin{array}{c} (-q_{i}c_{i}c_{j}c_{i}) = \\ -q_{i}c_{i}c_{i}c_{i}c_{i} + \\ -q_{i}c_{i}c_{i}c_{i}c_{i} + \\ -q_{i}c_{i}c_{i}c_{i}c_{i} + \\ -q_{i}c_{i}c_{i}c_{i}c_{i} + \\ -q_{i}c_{i}c_{i}c_{i}c_{i}c_{i}c_{i}c_{i}c$	$\label{eq:constraints} \begin{split} + a_{0}^{2}(r_{0}, \theta_{1}) & = \\ + a_{0}^{2}(d_{0}^{2}, r_{1}) & = \\ + a_{0}$	2444.9 - 1.122.4 - 2.122.4 - 2	47795.4 1155.4 1155.4 1155.4 1155.4 1156.4 1156.4 1157.	144420.7 14142.4 14142.4 14142.4 144470.5 14470.5 144	$ \begin{array}{c} -1 \leq i \leq j \leq i \leq j \leq j \leq j \leq j \leq j \leq j \leq j$	$\begin{split} &-i(z,\bar{z},\bar{z}) \\ &-i(z,\bar{z}) \\ &-i(z,\bar{z},\bar{z}) \\ &-i(z,\bar{z}) \\ &-i(z,\bar{z}) \\ &-i(z,\bar{z}) \\ &-$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & \phi_{0}\phi_{0}\phi_{1}, \\ & \phi_{1}\phi_{2}\phi_{1}, \\ & \phi_{1}\phi_{2}\phi_{2}\phi_{1}, \\ & \phi_{1}\phi_{2}\phi_{1}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2$	$\begin{split} &(1-0.4\times 2010)\\ &(1-0.4\times 2010)\\ &(1-0.4\times 0.9)\\ $	12:15 0-47 14:45 0-5 14:49-25,7 14:49-2	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$\label{eq:constraints} \begin{array}{c} 0 \\ - e^{-i \phi_{1}} (\phi_{1}) (\phi_{1}) (\phi_{2}) (\phi_{2$	$\label{eq:constraint} \begin{split} + a_{0}(r_{0}, a_{0}) & = \\ - a_{0}(2, 2, 4) & = \\ - a_{0}(2, 2, 4) & = \\ - a_{0}(2, 4, 2) & = \\ - a_{0}(2, 4, $		470%,# 15%,0%,3 15%,0%,3 15%,0%,3 15%,0%,3 15%,0%,3 15%,0%,3 15%,0%,3 16%,0%,0%,0%,0%,0%,0%,0%,0%,0%,0%,0%,0%,0%	$\begin{array}{c} 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D}, A_{A} \\ 2 < A_{A,D} \\$	$\label{eq:constraints} \begin{array}{c} -1 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\$	$\begin{split} &-4 4 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (1) (2) (2) (2) (2) (2) (2) (2) (2	电影中的"一""""" 有效的"""" "" "" "" "" "" "" "" "" "" "	$ \begin{array}{l} 11-04-2010\\ 11-04-2010\\ 21014-0\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-2200-7\\ 11-20$	12 (15) - 4 13 (45) - 5 13 (47) - 2 14	1.2.1、1、2、2、2、2、2、2、2、2、2、2、2、2、2、2、2、2、	$\begin{array}{c} -4e^{-i\phi_{1}} \\ +4e^{-i\phi_{2}} \\ +4e^{-i$	$\label{eq:constraints} \begin{split} + a_{0}^{2}(y, y) & + a_{0}^{2}(y, y) \\ + a_{0}^{2}(z, z) & + a_{0}^{2}(z, z) \\ + a_{0}^{2}(z, z) &$	2444.9 - 1.122.4 - 1	$\begin{array}{c} (270) S_{10} \\ (150) S_{10} \\$	144520.7 14452.4 14	·····································	$\begin{split} &-4 4 x _{0}^{2}\\ +1 ^{2} x _{0}^{2} x _{0}^{2}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (1) (1) (1) (1) (1) (1) (1) (1)	我们有这个人,我们就是一个人,我们就是	11-04-2-2010 12-04-2-2010 12-04-0 12-014-0 1-210-7 1	12115-43 14648-5 14649-5 14	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\begin{array}{c} -6.4 < 6.4 \\ -6.4 < 6.4 \\ -6.4 < 6.4 \\ -6.4 $	$\label{eq:constraints} \begin{split} + a_{0}(t) + b_{1} \\ - a_{0}(t) + b_{1} \\ + a_{0}(t) + c_{1} \\ + a$		$\label{eq:2.1} \left\{ \begin{array}{l} (2 + 0) \delta_{1,0} \\ (1 + $	14.4.2.0.7 14.4.2.4 14.4.2.4 14.4.2.4 14.4.2.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4.4 14.4.4.4.4.4.4 14.4.4.4.4.4.4 14.4.4.4.4.4.4.4 14.4.4.4.4.4.4.4.4.4.4 14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	● 1	$\begin{split} &+(4)\pi_{1}^{2} \\ &+(1)\pi_{1}^{2} \\ &+$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (() () () () () () () () () () () () ($\begin{split} & \phi_{0}\phi_{0}\phi_{1}, \\ & \phi_{1}\phi_{1}\phi_{2}, \\ & \phi_{1}\phi_{1}\phi_{2}\phi_{2}\phi_{1}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2}\phi_{2$	11-04-2010 12-04-2010 12-044-0 12-04-0 12-0	12 (15 / 47) 14 (15 / 47) 14 (16 / 57) 14	1. 2. 1 · 1 · 1 · 2 · 2 · 2 · 2 · 2 · 2 · 2 ·	$\begin{array}{c} -4 < r \\ +4 < $	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, a_{1}, a_{2}) & + a_{1}(r_{0}, a_{1}, a_{2}) \\ + a_{2}(r_{0}, a_{1}, a_{2}) & + a_{2}(r_{0}, a_{2}, a_{2}) \\ + a_{2}(r_{0}, a_{2}, a_{2}) & + a_{2}(r_{0}, a_{2}, a_{2}) \\ + a_{2}(r_{0}, a_{2}, a_{2}) & + a_{2}(r_{0}, a_{2}, a_{2}) \\ + a_{1}(r_{0}, a_{2}, a_{2}) & + a_{2}(r_{0}, a_{2}, a_{2}) \\ + a_{2}(r_{0}, a_{2}, a_{2}) & + a_$		17705.# 1795.# 1895.# 1895.# 1895.# 1895.# 1895.# 1895.# 1995.# 1	$\begin{array}{c} 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D}, A_{A} \\ 2 < A_{A,D} \\ 2 < A_$	—————————————————————————————————————	$\begin{split} &-(4) \mathrm{II}_{2} \mathrm{II}_$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	电电路 """" """ "" "" "" "" "" "	$\begin{split} &(1-0.6\times -2010)\\ &(1-0.6\times -2010)\\ &(1-0.6\times -0.9)\\ &(1-0.6\times$	12 (15 / 47) 14 (15 / 47) 14 (17 / 57) 14	1.2.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	$\begin{array}{c} -4e^{-i}\phi_{1}, \\ 0, \\ -4e^{-i}\phi_{2}, \\ +1$	$\label{eq:constraints} \begin{split} + a_{0}^{2}(y, \theta, \\ - a_{0}^{2}(z, \theta, \eta, \\ + a_{0}^{2}(z, \eta, $	$\label{eq:2.1} \begin{array}{l} 24_{2}(4,9) \\ -1 (12_{2}(4,-9)) \\ -1 (12_{2}$	47795.# 1195.	$\begin{array}{c} 1 < A_{A,CD}, 7 \\ 1 < A_{A,CD}, 7 \\ 1 < A_{A,CD}, 4 \\ 1 < A$	《上》,《文····································	$\begin{split} &-i(z)(z,z)\\ &-i(z,z)(z,z)\\ &-i(z,z)(z,z)\\ &-i(z)(z,z)(z,z)\\ &-i(z)(z,z)(z,z)(z,z)\\ &-i(z)(z,z)(z,z)(z,z)\\ &-i(z)(z,z)(z,z)(z,z)\\ &-i(z)(z,z)(z,z)(z,z)(z,z)\\ &-i(z)(z,z)(z,z)(z,z)(z,z)(z,z)\\ &-i(z)(z,z)(z$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & \phi_{ij}(q_{ij}) = 1 \\ & \phi_{ij}(q_{ij}) = 0 \\ & \phi_{ij}(q_{ij}) = 1 \\ & \phi_{ij}(q_{ij}) =$	11-04-2-2010 12-04-2-2010 12-04-4-4 1-220-7 1-200-7	12115-43 14645-53 14645-52 14655-52 14655-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\begin{array}{c} - e_{i} (e_{i} + e_{i}) + e_{i}) + e_{i} (e_{i} + e_{i}) + e_{i} (e_{i} + e_{i}) + e_{i}) + e_{i} (e_{i} + e_{i}) + e_{i} (e_{i} + e_{i}) + e_{i}) + e_{i}) + e_{i} (e_{i} + e_{i}) + e_{i}) + e_{i}) + e_{i} (e_{i} + e_{i}) + e_{i}) + e_{i}) + e_{i}) + e_{i} (e_{i} + e_{i}) + $	$\label{eq:constraint} \begin{split} + a_{0}(r_{0}, a_{1}) & a_{1} \\ - a_{0}(2, 2, 3) \\ - a_{1}(2, 3, 3) \\ - a_{1}(2, 3$	2444.9 -1-122-5	$\label{eq:constraints} \begin{array}{c} (r^{2}r)s_{i,0}, \\ (r^{2})_{i,1}, (r^{2})_{i,1}, \\ (r^{2})_{i,1}$	14.4.4.2.0.7 14.4.4.2.4.4 14.4.4.2.4.4 14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	,这个人的意思。""你们,我们就是这些人的。""你们就是这个人的,我们就是这个人的。""你们,我们就是这个人的,我们就是我们的问题。""你们,你们就是我们的人们的,我们就是我们的人们的,我们就是你们的人们的人们的人们的人们就是我们的人们的人们就是我们的人们的人们就是我们的人们的人们就是我们的人们就是这个人们的人们就是这个人的人们就是这个人的人们就是这个人们的人们就是这个人们的人们就是这个人们的人们就是这个人们的人们就是这个人们的人们就是我们的人们就是这个人们的人们就是这个人们的人们就是你们的人们就是这个人们的人们就是你们的人们就是你们的人们就是你们的人们就是你们的人们就是你们的人们就是你们们就是你们的人们就是你们们的人们就是你们们的人们就是你们们们就是你们们们就是你们的人们们就是你们们们们就是你们们们们们们们们就是你们们们们们们们们们们们们们们们们	$\begin{split} &-(4) \mathrm{Tr}_{0}^{2} \\ + 1 & (-4)^{2} \\ + 1 \\ + 1 & (-4)^{2} \\ + 1 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & \phi_{1}\phi_{2}\phi_{1}, \\ & \phi_{2}\phi_{3}\phi_{2}, \\ & \phi_{1}\phi_{2}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3$	11-04-2-2010 12-04-2-2010 12-04-4-4 1-220-7 1-200-7	14,15,7,47 14,07,57,7 14,07,	1. 2. 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	一是个有关,是有一个一个有关。 一是个有关,是有一个一个有关,是有一个一个有关,是有一个一个有关,是有一个一个一个有关,是有一个一个一个是有关,是有一个一个一个是有关,是有一个一个一个是有关,是有一个一个一个是有关,是有一个一个一个是有关,是有一个一个一个是有关,是有一个一个一个是有关,是有一个一个一个人们是有关,是有一个人们都是有关,是有一个人们就是有关,是有一个人们就是有关,是有一个人们就是有一个人们就是有一个人们就是有一个人们就是有一个人们就是有一个人们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们就是有一个人们们们就是有一个人们们们就是有一个人们们们就是有一个人们们们就是有一个人们们们就是一个人们们们就是一个人们们们们们就是一个人们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们	$\begin{split} + a_{0}(r_{1}, a_{1}) & + a_{1}(r_{2}, a_{2}) & + a_{2}(r_{2}, a_{2}) & + $	$\label{eq:2.1} \begin{split} & (A_{1,2},A_{1,2},A_{2,3},$	17905.8 1995.8 1995.8 1995.8 1995.9 1995.	14.4.4.2.4.4 14.4.4.2.4.4 14.4.4.2.4.4 14.4.4.2.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4 14.4.4.4.4.4.4 14.4.4.4.4.4.4.4 14.4.4.4.4.4.4.4.4.4.4 14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	,这是一个人,我们的是一个人,我们的是一个人,我们的是一个人,我们就是一个人,也不能是一个人,我们就是	- 4413.4 - 11, 4, 7 - 11, 4, 7 - 10, 4, 7 - 10, 4, 1 - 10, 4,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} &\phi_{0}(x_{1}), \\ &\phi_{0}(x_{2}), \\ &\phi$	$\begin{array}{c} 11-04-2,0110\\ -104-2,0110\\ -104-2,0110\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0\\ -11-2,01,0\\ -11-2,01,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2$	12 (15 - 47) 13 (15 - 47) 13 (15 - 47) 14	1.2.1、1、2、2、2、2、2、2、2、2、2、2、2、2、2、2、2、2、	$\label{eq:constraints} \begin{array}{c} -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2},a_{i}^{2},a_{i}^{2},a_{i}^{2}) \\ -\alpha_{i}(x_{i}^{2},x_{i}^{2},a_{i}^{2}$	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, a_{0}) & a_{0} & a_{0}(a_{0}) + a_{0} & a_{0}(a_{0}) + a_{0} & a_{0}(a_{0}) + a_{0} & a_{0}(a_{0}) + a_{0}(a_{0}) $	2444.9 - 1.122.4 - 2.122.4 - 2	14705.8 1155.8 1155.8 1155.8 1155.8 1155.8 1156.8 1157.	14.4.4.2.0.7 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4 14.4.2.4.4.4.4 14.4.4.4.4.4.4 14.4.4.4.4.4.4.4 14.4.4.4.4.4.4.4 24.4.4.4.4.4.4.4 24.4.4.4.4.4.4.4.4 24.4.4.4.4.4.4.4.4.4.4.4 24.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	,是不能是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们的是一个,我们就是	$\label{eq:constraints} \begin{split} &-c_1^2(x), \\ &-c_1^2(x), \\ &-c_1^2(x), \\ &-c_2^2(x), \\ &-c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & \phi_{1}\phi_{2}\phi_{1}, \\ & \phi_{2}\phi_{3}\phi_{1}, \\ & \phi_{1}\phi_{2}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3$	$ \begin{array}{l} 11-04-2-2010\\ 1-04-2-2010\\ 3-2014-0\\ 1-220-7\\ 1-20-7\\$	14,15,7,47 14,49,83,7 14,49,25,7 14,49,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	$\label{eq:constraints} \begin{array}{c} 0 \\ -4e^{-i} (-4e^{-i}) + 1 \\ -4e^{-i} ($	$\begin{split} + a_{0}(r_{1}, a_{1}) & + a_{0}(r_{2}, a_{1}) & + $	$\label{eq:constraints} \begin{array}{l} \lambda_{1} \lambda_{2} \lambda_{3} \lambda_{3} \\ + \lambda_{2} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \lambda_{3} \\ + \lambda_{3} \\ + \lambda_{3} \lambda_$	170%.# 15%.4.3.1 15%.5%.3 15%.5%.5%.2 15%.	$\begin{array}{c} 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D}, A_{A,D}, 1 \\ 1 < A_{A,D}, $,又是一部分,有有多少。" 《····································	$\begin{split} &-(4) (x, 0) \\ &+(1) (x, 0) \\ &+$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7)	电电源,于 有空间的,于 有空间的,于 1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、	11-04-2010 12-04-2010 12-044-01 1-2204-0 1-2204-0 1-2204-0 1-2204-0 1-2204-0 1-2204-0 1-2404-0 1	14,15,747 14,973,7 14,973,7 14,973,7 14,975,7 14,97	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$\begin{array}{c} -4e^{-i\phi_{1}} + 6e^{-i\phi_{2}} + 1e^{-i\phi_{2}} $	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{$	2444.9 1.122.4 2.124.4 2.12		14.4.5.0.7 14.4.5.2.4.4 14.4.5.2.4.4 14.4.5.2.4.4 14.4.6.2.4.4 24.4.6.4.5.4.5.4 24.4.6.4.5.4.5.4 24.4.6.4.5.4.5.4 24.4.6.4.5.4.5.4 24.4.6.4.5.4.5.4.5.5.5.5.5.5.5.5.5.5.5.5.	$\label{eq:constraints} \begin{split} & -1 + i + i + i + i + i + i + i + i + i + $	$\begin{split} &-4 4 x_{1} _{2} \\ &+1 - x_{1} _{2} \\ &+1 - x_{2} _{2} \\ &+1 - x_{$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 7 7 7 7 7 7 7 7 7 7 7 7 7	$\begin{split} & \phi_{i}\phi_{i}\phi_{i}\phi_{i}, \\ & \phi_{i}\phi_{i}\phi_{i}\phi_{i}\phi_{i}\phi_{i}\phi_{i}\phi_{i}$	$\begin{array}{c} 11-04-2,0110\\ -104-2,0110\\ -104-2,0110\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0,0\\ -11-2,01,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0,0\\ -11-2,0\\ -1$	12 (15 - 47) 13 (15 - 47) 13 (15 - 47) 14	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$\begin{array}{c} (-q, -q, -q, -q, -q, -q, -q, -q, -q, -q, $	$\label{eq:constraints} \begin{split} + a_{0}(t), & a_{1}(t), \\ + a_{0}(t), \\ + a_{$	2444.9 - 1.122.4 - 2.122.4 - 2	14795.4 1195.	14 A 4 20.7 14 A 4 2.4 14 A 4 4 2.4 14 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	,是不能是一个。" 《····································	$\label{eq:constraints} \begin{split} &-c_1^2(x_1^2,y$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (1) (1) (1) (1) (1) (1) (1) (1)	$\begin{split} & \phi_{1}\phi_{2}\phi_{1}, \\ & \phi_{2}\phi_{3}\phi_{1}, \\ & \phi_{1}\phi_{3}\phi_{2}\phi_{3}, \\ & \phi_{1}\phi_{2}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3$	11-04-2010 12-04-2010 12-044-0 12-04-0 12-04-0 12-04-0 12-04	12 (1) 5 (4) 14(4) 5 (5) 14(4) 5 (5) 14(4) 5 (7) 14(4) 5 (7) 14	1. 2. 1 · 1 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 ·	$\begin{array}{c} -4.4 < 6, \\ 0 \\ -4.4 < 6, \\ 1, 2, 4 \\ -4.4 < 6, \\ 1, 2, 4 \\ -4.4 < 6, \\ 1, 2, 4 \\ -4.4 < 6, \\ 1, 2, 4 \\ -4.4 < 6, \\ 1, 2, 4 \\ -4.4 < 6, \\ 1, 2, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, \\ 1, 2 \\ -4.4 < 6, $	$\begin{split} + a_{0}(r_{1}, a_{1}) & + a_{1}(r_{2}, a_{2}) & + a_{2}(r_{2}, a_{2}) & + $		1795.8 199.4 1	$\begin{array}{c} 1 < A_{A,CD}, 7 \\ 1 < A_{A,CD}, 7 \\ 1 < A_{A,CD}, 4 \\ 1 < A$,上文,""""""""""""""""""""""""""""""""""""""	$\begin{split} &-4 4 x_{i} _{i} \\ + - x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} _{i} \\ + x_{i} x_{i} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	电电路,于上, 中的中国,于上, 中的中国,于上, 一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、	$\begin{split} &(1-0.6\times 2010)\\ &(1-0.6\times 2010)\\ &(1-0.6\times 10.6\times 10.$	12 (1) 5 (4) 14(4) 5 (5) 14(4) 5 (5) 14(4) 5 (7) 14(4) 5 (7) 14	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$\begin{array}{c} -4e^{i} e^{i} e^{i} & 0 \\ -4e^{i} e^{i} e$	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, r_{0}) & + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}) & + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}, r_{0}) & + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}, r_{0}) & + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}, r_{0}) \\ + a_{0}(r_{0}$	2444.9 1.122.4 2.12	1795.4 1995.4	$ \begin{array}{c} 1 + A_{n} \geq 0, \\ 1 + A_{n} \geq -4, \\ 1 + A_{n} \geq -4, \\ 1 + A_{n} \geq -4, \\ 2 + A_{n} \geq -4, \\ 1 + A_{n} \geq -4, \\ 2 + A_{n} \geq -4, \\ 1 + A_{n} \geq -4, \\ 2 + A_{n} = -4, \\ 2 + A$	《上》,《书》:"""","""""""""""""""""""""""""""""""""""	$\begin{split} &-4 4 x_{1} _{2} \\ &+1 - x_{1} _{2} \\ &+1 - x_{2} _{2} \\ &+1 - x_{$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	$\begin{split} &\phi_{1}\phi_{2}\phi_{1}, \\ &\phi_{2}\phi_{3}\phi_{1}, \\ &\phi_{1}\phi_{2}\phi_{3}\phi_{2}\phi_{3}, \\ &\phi_{1}\phi_{2}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3$	11-04-2010 12-04-2010 1-210-7. 1-	12 (15 - 47) 13 (15 - 47) 13 (15 - 47) 14	1.1、1、1、2、2、2、2、2、2、2、2、2、2、2、2、2、2、2、2、	$\begin{array}{c} 0 \\ - e^{-i\phi_{1}} e^{-i\phi_{2}} e^{-i$	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, r_{0}) & = \\ - a_{0}(s_{0}) + a_{0}(s_{$		14705.4 119.5	$ \begin{array}{l} 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D,D}, 7 \\ 1 < A_{A,D}, A_{A,D}, 7 \\ 1 < A_{A,D}, A_{A,D}, 7 \\ 1 < A_{A,D}, A_{A,D}, 1 \\ 1 < A_{A,D}, A_{A,D}, 1 \\ 1 < A_{A,D}, A_{A,D}, 1 \\ 1 < A_{A,D}, 1 \\ 1 < A_{A,D}, 1 \\ 1 < A_{A,D}, 1 \\ 1 \\ 1 < A_{A,D}, 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	《上》,"不是一个,不是一个,不是一个,不是一个,不是一个,不是一个,不是一个,不是一个,	$\label{eq:constraints} \begin{split} &-c_1^2(x_1,y_2) \\ -c_1^2(x_2,y_1) \\ -c_1^2(x_2,y_1) \\ -c_1^2(x_2,y_1) \\ -c_2^2(x_2,y_1) \\ -c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	$\begin{split} & \phi_{1}\phi_{2}\phi_{1}, \\ & \phi_{2}\phi_{3}\phi_{1}, \\ & \phi_{1}\phi_{2}\phi_{3}\phi_{3}, \\ & \phi_{2}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3$	11-04-2010 12-04-2010 13-014-0 1-2204-7 1-	12:15-47 14:45-45 14:49:27 14:49:	1. 2. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{c} -4c^{2}c^{2}c^{2}c^{2}c^{2}c^{2}c^{2}c^{2}$	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, r_{0}, r_{0}) \\ + a_{0}(a_{0}, a_{0}) \\ + a_{0}(a_{0}, a_{0}$	$\label{eq:2.1} \begin{split} & \mathcal{L}_{2,2,3}^{-1} = \mathcal{L}_{2,3,3}^{-1} = \mathcal{L}_{2,3,3,3}^{-1} = \mathcal{L}_{2,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3$	17795.4 1795.4 1995.	14 AAGDO, 7 14 AA	《上》,"我们是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是不是有这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们	$\begin{split} &-4 4 _{1}^{2} \\ &+1 _{1}^{2} \\ &+1 _{1}^{2} \\ &+1 _{1}^{2} \\ &+1 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	电电信 ,于是这个人的。 这个时候,这个时候,这个时候,我们就是一个时候,你们还是一个时候,你们还是一个时候,你们还是一个时候,你们还是一个时候,你们还是一个时候,你们还是一个时候,你们还是一个时候,你们还是一个时候,你们还是你们还是一个时候,你们还是一个时候,你们还是你们还是你们还	$\begin{array}{c} 11-04-2,0110\\ -104-2,0110\\ -104-2,0110\\ -11-2,014,-1\\ -12,014,-1\\ -12,014,-1\\ -12,014,-1\\ -12,014,-1\\ -12,014,-1\\ -12,014,-1\\ -12,014,-1\\ -12,014,-1\\ -14,0$	12 (15 - 47) 13 (15 - 47) 13 (15 - 47) 14	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$\begin{array}{c} -\alpha_{i} < c_{i} $	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, \theta_{1}, \theta_{2}) & = \\ + a_{0}(a_{0}, a_{1}) & $	2444.9 1.122.4 24.122.4 1.124.4 1.1	14795.4 1495.	14 A 4 20 - 7 14 A 4 2 - 4 14 A 4 - 4 14	,是不能是一个。" 《····································	- 44 (19); - 11, (4); - 11, (4); - 11, (4); - 12, (4); - 12, (4); - 14,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
234e	6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	$\begin{split} & \phi_{1}\phi_{2}\phi_{1}, \\ & \phi_{2}\phi_{3}\phi_{1}, \\ & \phi_{1}\phi_{2}\phi_{3}\phi_{3}, \\ & \phi_{2}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3}\phi_{3$	11-04-2010 12-04-2010 13-014-0 1-2204-7 1-	12:15-47 14:45-45 14:49:27 14:49:	1. 2. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\begin{array}{c} -4c^{2}c^{2}c^{2}c^{2}c^{2}c^{2}c^{2}c^{2}$	$\label{eq:constraints} \begin{split} + a_{0}(r_{0}, r_{0}, r_{0}) \\ + a_{0}(a_{0}, a_{0}) \\ + a_{0}(a_{0}, a_{0}$	$\label{eq:2.1} \begin{split} & \mathcal{L}_{2,2,3}^{-1} = \mathcal{L}_{2,3,3}^{-1} = \mathcal{L}_{2,3,3,3}^{-1} = \mathcal{L}_{2,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3$	17795.4 1795.4 1995.	14 AAGDO, 7 14 AA	《上》,"我们是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是有这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是不是有这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们	$\begin{split} &-4 4 _{1}^{2} \\ &+1 _{1}^{2} \\ &+1 _{1}^{2} \\ &+1 _{1}^{2} \\ &+1 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$



	$\begin{array}{c} (4) & (-1)^2 \\ (3) & (-1)^2 \\$	$\begin{split} & + 4 \delta_{1,1}^{2} \delta_{1,2}^{2} + \cdots + \delta_{1,1} \delta_{1,1}^{2} \\ & + \delta_{1,2,1,1}^{2} + \cdots + \delta_{1,2,1,2}^{2} \delta_{1,2}^{2} + \cdots + \delta_{1,2,1,2}^{2} \\ & + \delta_{1,2,1,1,1}^{2} + \cdots + \delta_{1,2,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1}^{2} + \cdots + \delta_{1,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1}^{2} + \cdots + \delta_{1,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1}^{2} + \cdots + \delta_{1,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1,1,1,1,1}^{2} \\ & + \delta_{1,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1$	 し、し、必、「」」、 し、し、必、「」」、 し、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、	$\begin{array}{c} 1 & 1 \\ 1 & 1 \\ 2 & 1 \\$		$\label{eq:constraints} \begin{array}{c} -\kappa_{0} + \kappa_{1}^{2} \leq 0 \\ -\kappa_{1}^{2} \leq \delta_{1} < \kappa_{1}^{2} \\ -\kappa_{2}^{2} \leq \delta_{2} < \kappa_{2}^{2} \\ -\kappa_{2}^{2} \leq \delta_{2} < \kappa_{2}^{2} \\ -\kappa_{1}^{2} \leq \delta_{2} < \kappa_{2}^{2} \\ -\kappa_{2}^{2} \leq \delta_{2} < \kappa_{2}^{2} \\ -\kappa_{1}^{2} \leq \delta_{2} < \kappa_{2}^{2} \\ -\kappa_{2}^{2} \leq \delta_{2} \\ -\kappa_{1}^{2} \leq \delta_{2} < \kappa_{2}^{2} \\ -\kappa_{2}^{2} \leq \delta_{2} \\ -\kappa_{2}^{2} \leq \delta_{2} \\ -\kappa_{2}^{2} \leq \delta_{2} \\ -\kappa_{1}^{2} \leq \delta_{2} \\ -\kappa_{2}^{2} \leq \delta_{2} \\ -\kappa_{1}^{2} \leq \delta_{2} \\ -\kappa_{2}^{2} \leq \delta_{2} \\ -\kappa_{1}^{2} \leq \delta_{2$	$\label{eq:constraints} \begin{array}{c} -\kappa_{\rm E}(2), 4 \\ -\kappa_{\rm E}(2), -\kappa_{\rm E}(2$	-C40,46 -C40,46 -C40,47 -C4	2.3. 使用的 化合金	$\begin{array}{c} \lambda^{(2)} 4 d k, \theta \\ a, k (2) 2 k (1 - 1) \\ 2 d (k + 1) \\ a + k (1 + 1) \\$	$\begin{array}{c} 43.9 \\ + 3.27 $	$\label{eq:constraint} \begin{split} &-1 (u t t t + 1, u \\ &-u + t + 1 + u \\ &-u + t + u \\ &-u \\ &-u + u \\ &-u \\ &-$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
上文学家是来 人名英克尔特克 医子宫炎 医多	$\begin{array}{c} [3] & [-1] (4+6) \\ [3] & $	$\begin{array}{c} 4 + 7.5 \ , \ , \ , \ , \ , \ , \ , \ , \ , \ $	1.443-8 1.4443-9 1.44422-0 1.44422-0 1.44442-0 1.4444-0 1.444-0	$\begin{array}{c} (-,+) + 1 \\$	一天,没有了。 一天,没有了。 一天,有有一天,有有一天,有有一天,有有一天,有有一天,有有一天,有有一天,有		$\label{eq:constraints} \begin{split} &-\frac{1}{2} [M_{1}, L_{1}] \\ &-\frac{1}{2} [M_{1}, L_{1}] \\ &-\frac{1}{2} [M_{2}, L_{$	$\label{eq:constraints} \begin{split} & \eta(\eta)_{1,0} & \eta($	1 (47-4 1 (47-4) 1 (47-1) 1 (17-1) 1 (17-1	$\begin{array}{l} (28859), 1\\ (2819), 4\\ (2919), 5\\ (2720), 5\\ (2720), 6\\ (27$	$\begin{array}{c} (\zeta_{1}), (\zeta_{2}), (\zeta_{2$	 (a) (27), i (a) (44, i) (a) (54, i) (a) (52, i) (a) (52, i) (a) (52, i) (a) (54, i) (a) (54,	$\begin{array}{c} (45, 9) \\ (-15, 2) \\ (-15, 2) \\ (-15, 2) \\ (-15, 3) \\ (-15,$
Extractor hase	$\begin{array}{rcl} \mathbf{Arad}_{1} \mathbf{y}_{1} \mathbf{y}_{2} \mathbf{y}_{3} \mathbf{y}_{4} $	2 OLDERY TACL 2 (4), 0 2	enter Bostolo Varenti 11=942-2110 viriada,	$\begin{array}{c} \mathbf{n}_1 = (2, 2, 2) \\ = (2, 2, 3) \\ = (2, 1, 2) \\ = (2, 1, 2) \\ = (2, 1, 2) \\ = (2, 1, 2) \\ = (2, 1, 2) \\ = (2, 1, 2) \\ = (2, 1, 2) \\ = (2, 2) \\ = ($	dist Autouthacting 40.4 4 20.4 4 20.4 2	(1943) (1943)	1 年後一時一日,一日,一日,一日,一日,一日,一日,一日,一日,一日,一日,一日,一日,一	2747.5 4744.4 1441.4 1444.4	- 人名英格兰人名英格兰人名英格兰人名英格兰人名英格兰人名英格兰人名英格兰人名英格兰	2.如此有"有"有",有"有",有"有",有"有",有"有",有"有",有"有",有"	$ \begin{array}{l} \delta_{1,1} & & \\ \delta_{1,2} & & \\ \delta_{2,2} $	$\label{eq:product} \begin{split} & -\epsilon_{14} e_{14} e_{14} e_{14} \\ & -\epsilon_{14} e_{14} e_{$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$



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ŝ.	약산에는 비누운 동안에 같다.	2312.5 2743.9	-10-1.1 -10-6 a	1966 - 1 169 - 1	- 6 ₇ - 4 - 6 ₁ , 7	46.7	- 54 . A 5 . 3	1233.3 1263.6	- 2167.9 -1282.5	53.00 B 53.00	- 1.1		《月月月月》:"我的,兄二二"第三日 《月月月月月月,月二月月月,一月月月
	1791 - 1-24547 (617 - 1-74555	27.05	-24MB 7	2512.8	-6.5	<451.2	~ er. 5	ristrick (1)	2月1日秋,後	4759.9	- 1, 4	- 1899 B	+344.3 145.0 45.2
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÷	1945 (A+21453)	7349.3 7349.6	-11144.7 -1110.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- N - 1 - 1 - N	一、天过秋、杨 人、爱子风、清	、14-12、3 、他用、14	-163-6 (01-1-1	一百足有限,有 一百公司法,张	化化理型 1 年 41月16日 - 19	- 7 ₆ , 12 - 7 ₆ , 3	- 14 12 . 1 - 14 6 g . 9	二字诗言,接""""同""""同""""""""""""""""""""""""""""""
	1983	2692.0	-112013 -12203 -12203	-446.7 659 :	- 1, s - 4	41.8 . 2 842 4		-442.3 -012.1	- 12-5 E. 4 - 12-5 E. 4	4000 - 600	- 6. 15 - 6. 6	- (+1)), 1 - (+144, 2	- 1997 4 1961 5 1997 2 - 1987 5 1964 5 1977 4
	的复数 计不定可定于 不	36.22 2	-5382.3	16.72.1		11 ST 2, B	-+	14,27,4	人名马克特 计外	1462 B . 1	16.2	· · · · · . 0	-52.5 \$59.8 -6.6
3	1743 1443 1443 1463 1444 ⁻	1. 6445 - 14 2. 655 Y 1. 2	×1174.d ×1592.1	4124.7	-1.4	- 1 - 16 - 16 - 1973 - 3	- 8 5 , 4 - 64 , 4	-412.5 -462.5	-3-33-3 	- 6,976 , 7 67 # 4 , 2	- ñ. 1 	》(杨良恩。) 《 · 御言书。书	《杨晴云》:"夏代杨云建","隆云杨 《山桥云月:"夏代杨云年","汉云"建
i.	101E (540-435)	2448.6 1919	<\$200.4	1548.2 7567.9	- 5.1		- 41 x . 7 24 - 24	2 492 - 9 298 1 - 1	- 1 - 16-9 - 1 1 - 19-13 - 19	11.80.6 11.67.2	14 (S) - 15 (A)	- 1-192.2 - 33.48.8	
	981[] >+26448 987[] 1=2654 >	144.1	-1202.0 -3236.7	1:46.6	- 6 . 9	5-12.1	e.e.; 0	1971.5	+1304.1	4127.4	10.00	一、2次位,在	-102.6 \$14.00 (22.6
1	9991 25863 997	2422.4 2433.4	<12-1-4 <12-6-4	1 (200) A 13 (200)	44.5 44.5	十百日月月,除 十日月月月,至		2763.5 2753.6	-1414.1 -1416.7	11、12年1月 11月16日。1	- 1. 2 - 1. 1	- 2004 (4) - 2004 (3)	401.7 (15.4 21.8 460.7 (14.6 24.0
Ŷ.	1M1	1405.3 2534	-1280.H -1225.h	2464.7 1412.4	- 4 , 1 - 4 , 2	 < 128.3 < > 19.8 	-24,4 ×16,1	2943.9 23943.1	-11447 S -11443 S	化基药法 2 律 化学出现:普	+ 4.19 - 4.1	- + 14,0 . 4 1 . 4	-ka,3 (1/4.4 22.2 -ee,3 (1/4.3 24.4
1	(ed.) (425-61.)	21.67,8	+Ex10.2	2443.1	-4.3	++15.6	×12,2	2724.2	<1.6×6, 5	2429.0	~ 9. fg	- 142.2	(81) 8 (12) 1 (18) 8
	7812[3+25865 7812[4+25924	2-19-3 22-70-6	~1.524.9 ~1.539.4	小林安装,那 "我们在小城	- 1. F - 1. H	一、"摸手之子" 一 经济外公司	- 26, k - 16, d	2173 & 4 2004 - 2	从公司的第三章 "你们的是想,我	化标准标识 年 - 化分子工作	- 4 , 4 - 4 , 1	- 1312.00 - 1723.0	二十萬,然 (二金))。 (日本) 二十百,秋 (二百)曰: (日本)
	(14) [1+24929 14) [3+2/1434	25.54.5	一直上的歌,这 一点是白云,白	551915 2411-5	- 11, 14 - 5, 14	一人一组装工装 一次汇成成金。2	- 18.0 - 75.5	25093.4 2822.2	一番春天火, 是 一百年時代, 5	网络新闻公司 网络新闻公司	~ <i>h</i> _ , > ~ 6, .)	- 1323 (A. 1	《中国公司》:"王母子,是''":"王子,你 《明句公母》:"王母令公司》:"王子,谢
	1983年前1月2日日日日	2543.6	<1 + D - 8	1911-1-1 1915-1-1 19197-1-1	-1.3	1. A.S. R.	- 0.5	24周期,是 24月1日,至	-1-14.5 -1-16-1	网络新闻学校	$\sim \dot{m}$, \dot{m}	5.5972.7	1943 W. 1957 A. 338 S.
	1913 [] 1475952 [[14] [] 14 141440	2,484.6 2448.1	-1124.4 -1924.4	1241.A	(c) {	 (1)27-12 (1)26-14 	- 6 % , 4 - 6 h , 4	2766.3	~1605 d	4244.2 4143.0	- 41 - 1 - 41 - 10	- 1644.5 - 1611.6	(125) (1 = 137) (6 = 7.1)
5 1	7993 (1997) 1998 1997 (1997) 1998	2415-8 2-64-1	-1441.1	1月4月,后 百年3月,后	四带,那 人来,还	< 5163.6 - 1519.4	-43,4 -44,4	11139月1日 21月日春日時	一百百百百。) 人名托马尔,博	211日,6 2016年6月	-5.5	- 11 9 4 1 1 1 - 11 月节、新	
	(11) =	2162.2	《王作帝王:后 《王代书词:后	1474.6 7429.4	- 4	4、1111、1 4、1944、19	-51.4 -68.5	2474.6 1623.3		2494 2733. 2	- 4 . A - 4 . S	一百九之后,道 11月6日,月	-64, 9 (19), 2 (1), 9 -64, 6 (2), 1 (2),
1	26684	20123-15 70295-14	一年的复步,有	6.166.9	~ \$, 4 - 5 , 7	5 11 ¹² B 1 9	~11.6	- 1 A B - 1	-1830.2	74.22.9	~4.2	~ 1654.3	一次外,书:"我觉你,是"你,说
1	1991 (- 16060 1991 (- 16060	2299.0 2299.3	小李有宗言,绝 一字有理论,"2	的人觉有,难 成为了即,看	- i. 4 - 4.0	1、1月月4日。2 11、1月月夏,1月	2931.9 2421.2	2591.9 2593.3	-1420.0 -1414.7	14 m Q + A 14 m Q + A	44,4 -4,5	人:《气节、奇 一句有气势,我	$e^{i}\partial e_{i}\hat{h} = (e^{i}, 1) = 0, 0$ $e^{i}\partial e_{i}\partial = (2^{i}e_{i}\partial - 0) = 0, 0$
	(94) 1- 16-dd	2291.0 2299.3	 1. 56.3 1.194.5 	的一种子,那 在的针着,那	- 4 . 2 - 6 . 5	- 5364.2 53665.3	-12.8 -12.8	2010年,4 10月1日,2	人主《诗诗:句 《音》诗句:句	. 1991 (1 1995 (10	-3.1 -4.8	》(作为2)5 公司有助表,有	- (9,4 (25,0) 4,0 - (4,0) (25,0) 4,0
i.	(81) (- 19699) (81) (- 19699)	2330.5	×1541.4	我们的命,与	- 4 , 4	vi67.3	-10.4	1.509.6 5983.5	-1798 1	1840.5	~4.9	一方有有方。 特	 South 125.0 0.0
4	1981 4-0 7883 4-0	的复数外,的 化分析的	(有線保護、分 (有線保持、多	是不肯正有小都。 百年曾代4月 194	<442.2<142.2	10-115-18 10-10-10-1	化二氯化乙基 化合物乙基	4-12.3	19382.9 \$4569.0	【白花秋歌,然 【白花玉歌,书	~187.0 ~187.0	- 4662 . 4 - 2678 . 4 - 479 . 5	,不相绝,我一些有效,有一些应该是,这 ,而相同,我一些有限,我一些应该是,道
ę	1945 []4+0 1941 []4+1	人公司行,李 以行代码,接	(4,896),] (4,946, 5	自己提供的,带 有什么的情,请	-147.8 -298.4	- 6 (588) - 1 - 162 (10) - 3	-353.4 -642.3	- 1995-3 1925-9	18376.1 21482.8	1912A.8 22.68.0	~167.0 ×226.4	+-479.2 +14435.9	一处回报,我们们将来,我们们是是有意,提 一切起来,我们们将我们还们一定自己的。你
4	TME_4~2	10058.6	20811.4 72765.3	21431.9 22924.4	-253.6	$= \frac{1}{2} $	-9469.3 -9455.3	11464.2	2×524.3 35272.5	24421.4 27404.6	-264.2 -244.0	-1530年,14 -1530年,16	-594.1 94.9 2517.0 -1044.1 45.0 2654.5
4	5M3[4−3 3M3[4−4	13464.1	24352.3	14104.9	-252.5	-10801.2	- 173.8 . 6	12236.4	16970.5	21904.4 23240.8 23314.8	- 1997, 9 - 1997, 9	一般正定等效。希	一般的意义,是一个成熟,我们一般的感觉。 的
4	1985 5-5 1981 54-6	11042.3 11153.5	.4212.0 74441.0	29月6日)。有 29月1日月日,多	-2903.4 -292.5	-11011.5 -11151.9	- 167.6 - 962.2	12477.8 12603.5	20359.6 27639.2	2731E.6 .×032.6	- 127.7	-12446.4 -19401.6	-3363.8 547.4 2792.0 -1339.9 548.7 3792.0
Patig: Page	3.0		11+04~2010	an (.42 → 12/20/2 12/14/93									
Pation Page 4 4	3.0	11278),0 53,416,0	11+04-2010	liters? isvet.e	-202. s -202. s	-11282-5 -11-40-5	5448年,有 1:415年,有	402×9.4 127×0.4	27776.8 21942.5	24293-3 24293-2	- 1 (d. 3 - 27.1	~12740.2 -12814.4	-5332.3 (11.0 2398.0 -1349.6 (24.8 232.0
Fistion Face 4 5 5	3.0	11278.4 11419-4	11+04-0010 	121144593 24069514 24069113 24060210 24060210	人名德瑟尔 法 一定计理论 中 人名达特尔 解 人名达特尔 海	-11242.5 -11240.5 -11256.2 -11267.3	-1428.5 -1438.0	12750.9 12500.1 12515.7	27629.7 27154.1	2929622 2922928 2932829		-12818.8 -32838.1 -32838.1	-1162.2 007.1 2792.0 -1573.0 061.2 2792.0
Fistion Page 4 4 4 4 4	10 101_6~8 101_6~10 101_1~12 101_1~12 101_1~12 101_6~10 101_6~10	112782.08 13.4160.08 13.4162.09 13.2162.09 13.2163.09	14+04-2010 	12114453 22004924 23004214 23004214 23042217 24042217	人名德瑟尔 4 人名加拉尔特 人名布特尔特 人名布特尔特 人名尔特 4 人名英格	-11282.3 -11282.3 -11280.1 -12267.3 -12267.3	-1429.5 -1438.0 -1341.9	12750.9 12508.1 12515.7 12592.5	是没有是明。" 是受了了来,是 正在的这个人的	新教育局部公司 受助育正督 - 部 受受了责任,等 受受过关节,将			-1162.2 557.1 2762.6 -1177.6 561.2 2742.6 -1177.6 164.3 2742.6
Patian Pace 4 4 4 4 4 4 4	50 1941-4-08 1941-4-108 1941-4-108 1941-4-10 1941-4-10 1941-4-10 1941-4-10 1941-4-10 1941-4-10 1941-4-10	1127日。後 1211日年。後 1211日年。後 1211日年。 1211日年 1111日 11111 11111 11111 11111 11111 11111 1111	11-04-2010 2014	12114443 240482.4 24042.3 24042.3 24122.7 24122.7 24122.7 24122.7 24122.7	人名德瑟尔 医 人名德德尔 医 人名德德尔 医 人名德德尔 医 人名德德尔 医 人名德德尔 医 人名德德尔 医	-11282.8 -11282.8 -1280.8 -1280.8 -1280.7 -1280.8 -1280.8 -20888.7	-1409 % . 6 -1409 % . 0 -1409 % . 0 -1409 % . 0 -1409 % . 2 -1409 % . 1	12750,9 12750,1 12250,1 122545,7 122545,5 12245,4 12245,4	是早有容明。早 是学生合命。王 正在杨兴氏,杨 正可下下外,可 正代杨杨年,蒋	小师子的机 是 是师皇上师,师 "这个皇兄弟,谁 "这个皇兄弟,"是 "这个帝帝皇子,是 "这个帝帝皇子,是		- 12849, 5, 4 - 52858, 5 - 52858, 5 - 52858, 5 - 52858, 5 - 12847, 5, 4	-1362.2 (197.3 2702.6 -1197.6 (641.2 2702.6 -1197.6 (641.3 2702.6 -1197.6 (641.3 2702.6 -1197.6 2702.6 -1198.6 (1724.6 2702.6
Fistian Frace 4 4 4 4 4 4 4 4 4 4 4	50 1941 - 4 ~ 8 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 1941 - 4 ~ 10 194	212783,4 53452,4 53452,4 53542,8 53542,8 53542,8 53542,8 53542,8 54542,8 55554,8 55554,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 55555,8 555555,9 555555,9 555555,9 55555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 555555,9 5555555,9 5555555,9 55555555	11-04-02020 0-04-0200 0-04-02020 0-04-0200 0-04-0200 0-04-0200 0-04-0200 0-04-0200 0-04-0200	13114343 1400492,4 140041,3 240041,3 24132,7 24132,7 24132,7 24152,7 242042,7 242042,7 242042,7 242042,7	人名德朗尔 法 人们研究上述 人名阿特克 按 人名印度克 接 人名尔克克 接 人名尔克 马 人名英格兰马	-11242.8 -11240.8 -11240.8 -11247.7 -11247.7 -11247.7 -11248.1 -110482.7 -10482.7	-14054.5 -14154.0 -14454.0 -14454.0 -14451.0 -14421.4 -14621.4 -14622.5	\$2750.0 \$27	是没有会错。更 是没有会错。更 是在也有人,也 上的情况的,可 是有是在前,前 是有是在前,前	2002/00/20 2002/20 2002/20 2002/20 2002/20 2002/20 2002/20 20 2002/20 20 20 20 20 20 20 20 20 20 20 20 20 2	- 1973 - 5 - 1974 - 4 - 1984 - 4 - 1984 - 1 - 2994		$\begin{array}{c} -(1)62, 0 \\ +(5)62, 0 \\ +(5)7, 0 \\ +($
Patian Nace 4 4 4 4 4 4 4 4 4 4	50 1941_6=8 1941_6=133 1951_4=132 1941_4=11 1941_4=15 1941_4=15 1941_4=15 1941_4=15 1941_4=15 1941_4=12	11275; , , , 1275; , , , , 1275; , , , , , , , , , , , , , , , , , , ,	11-04-020 02-04-020	12:11:4:43 14:49:0.4 24:90:2.5 24:52.7 24:122.7 24:122.7 24:562.7 22:572.7 22:572.7 22:572.7 21:072.7	人名德斯 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	-112402.8 -112400.8 -12269.7 -12269.7 -12269.7 -120402.7 -100402.7 -100402.7 -102437.7 -102437.7	$\begin{array}{c} -1.0(9.6,-5)\\ -1.0(9.6,0)\\ -1.0(9.1,-9)\\ \times 1.0(9.5,-2)\\ \times 1.0(9.5,-5)\\ -1.0(2.1,-6)\\ -1.0(2.1,-6)\\ -1.0(9.1,-5)\\ -9.0(9.1,-5)\end{array}$	12750,0 12750,0 12750,0 12750,0 12750,0 12750,0 12750,0 12750,0 12751,0 12751,0	定于有公司。定 定定有公司。1 定有公司之, 定有公司之, 定有法律之, 定有法律之所, 定者法律法, 定者选择, 定者选择, 定	1992/94-2 2992/95/95/97 2992/95/97 2992/95/97 2012/95/95/95 2012/95/95/95 2012/95/95/95 2012/95/95/95 2012/95/95/95	- 1973 - 5 - 1974 - 6 - 1984 - 6 - 1984 - 1 - 2994 - 1 - 2994 - 1 - 2994 - 1 - 2994 - 1 - 2995	 - 128194 (s) - 128194 (s) - 228595 (s) - 2189595 (s) - 21895950 (s) - 21895950 (s) - 2189595 (s)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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Portion Prace 42 83 84 84 84 84 84 84 84 84 84 84 84 84 84	$\begin{array}{c} 10\\ & \begin{array}{c} 1\\ & \end{array} \\ & \begin{array}{c} 10\\ & \end{array} \\ \\ & \begin{array}{c} 10\\ & \end{array} \\ & \begin{array}{c} 10\\ & \end{array} \\ & \begin{array}{c} 10\\ & \end{array} \\ \\ & \begin{array}{c} 10\\ & \end{array} \\ & \end{array} \\ \\ & \begin{array}{c} 10\\ & \end{array} \\ & \begin{array}{c} 10\\ & \end{array} \\ \\ & \end{array} \\ \\ & \begin{array}{c} 10\\ & \end{array} \\ \\ & \end{array} \\ \\ & \begin{array}{c} 10\\ & \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \\ \end{array} \\ \end{array}$	$\begin{array}{c} 1 & 0 & -1 \\ 1 & 1 & -1 \\ 2 & -1 & 0 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 1 & 2 \\ 1 & 2 \\ 1 & 2 \\ 1 & 2 \\ 1 & 2 \\ 2 & 2 \\ 2 & 2 \\ 1 & 2 \\ 2 & 2 \\ 2 & 2 \\ 1 & 2 \\ 2 & $	11-04-0810 -44-0813 -44-0813 -44-0812 -44-0812 -24-	1 (1) (1) (2) 1 (2) (4) (4) 1 (2) (4) (4) 1 (4) (4) (4) (4) 1 (4) (4) (4) (4) 1 (4) (4) (4) (4) (4) 1 (4) (4) (4) (4) (4) (4) (4) (4) (在一些一部分, 在一些一部分, 一部分子的一部分子的一部分子的一部分子的一部分子的一部分子的一部分子的一部分子的	$\label{eq:constraints} \begin{split} &-112, 86, 5, 8\\ &-112, 556, 1\\ &-112, 556, 2\\ &-112, 82, 3\\ &-112, 82, 3\\ &-112, 82, 3\\ &-112, 84, 9, 2\\ &-112, 84, 9, 2\\ &-112, 84, 9, 2\\ &-112, 84, 9, 2\\ &-123, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-133, 114, 9, 2\\ &-143, 114, 9, 2\\ &-143, 114, 114, 114, 114, 114, 114, 114, $	- 110年6月 - 121月6月 - 122月5日 - 122月5日 - 123月5日 - 123月51 - 123	1279.0.6 1249.0.1 1249.0.1 1249.0.7 1249.0	274634,1 28441,2 28454,4 295777,5 29444,4 29474,5 29444,4 29444,4 207471,5 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20743,6 20744,6 207			- 129 (a, a) - 229 (a, b) - 229 (a) - 229 (a) - 229 (a) - 229 (a) - 229 (a) - 229 (a) - 219 (a) - 110	$\begin{array}{c} +) (g_{2})_{2} & (\gamma_{1}, \gamma_{1})_{2} & (\gamma_{2}, \gamma_{2})_{2} & (\gamma_{2}$
Postian have 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10\\ & 5041 \leq r < 8\\ & 5041 \leq r < 102\\ & 7 < 102 \leq 102 < 102 \leq 102 \leq 102 < 102 \leq 102 \leq 102 < 102 \leq 102 < 102 \leq 102 < 102 < 102 \leq 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102 < 102$	1111日本(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(14-04-0810 -4(34-08-0 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2 -4(34-08-2) -4(34-08-	12 1.1 (4 6.2) 1.4 (4 6.4) 1.4 (4 6.4) 2.4 (6 6.2) 2.4 (6 7.2) 2.4 (7.2) 2.4 (7.2)	之间之间,有一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人们也不会有一个人们的一个人们也不会有些有些有些人的一个人们的一个人们也不会有有有些人的一个人们也不是一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的	$\label{eq:constraints} \begin{split} &-112,462,5\\ &-112,564,2\\ &-112,564,2\\ &-114,564,2\\ &-11$	$\label{eq:constraints} \begin{split} &-11100, 6, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,$	1279.0,5 1249.0,1 1249.0,7 125	274630,7 27164,1 27164,1 27604,8 27604,8 27604,8 27604,8 27634,4 27634,4 27634,4 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 2773,8 27744,8 2744,9 2744		- 一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、	- 12916, 1 - 12950, 1 - 1295	$\begin{array}{c} +) (42,2) & (77,1) & (73,2), (7$
Patian Pase 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 1 \\ 1 \\ \hline \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	(3) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	14-04-0,810 -444-0,810 -444-0,2 -444-0,2 -444-0,2 -2500,2 -2	12 1.1 4 42 13 1.4 42 14 44 14 44	- 2. 2. 2. 1 - 1 - 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	$\label{eq:constraints} \begin{array}{c} -112,862,5\\ -112,862,12\\ -132,63,12\\ -132,63,12\\ -132,64,12\\ -132,64,12\\ -132,646,12\\ -132,6$	$\begin{split} -& 110 (n, \theta_{1}, \theta_{2}, \theta_{3}) \\ -& 120 (n, \theta_{3}, \theta_{3}) \\ -& 100 (n, \theta_{3}, \theta_{3}) \\ -& 00 (n, \theta_{3}, \theta_{3}) \\ -$	1279.0,6 1279.0,7 1279.0,7 1279.0,7 1279.0,7 1279.0,7 1279.0,7 1279.0,7 1279.0,7 1299.1,7 1299.1,7 1299.1,7 1219.1,1 1219.1,1 1219.1,7 1219.1	274630,7 271564,1 28456,6 201664,5 201664,5 201664,5 201644,6 201644,6 2017,9 2017,9 2017,0 2		- 《····································	$\begin{split} &= 1294 (z_1, z_1) \\ &= 1294 (z_1, z_1) \\ &= 1294 (z_1, z_2) \\ &= 1214 (z_2, z_2) \\ &= 12$	$\begin{array}{c} -1362, 2 \\ -1374, 3 \\ -137$
Post i an Passe 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	$\label{eq:2.1} \begin{array}{c}, a_{-1} = \frac{1}{2} \left\{ \end{array}\right(, a_{-1} = \frac{1}{2} \left\{ \end{array}$	11-04-0,810 -4(-)4,13 -4(-)4,13 -4(-)4,12 -4(-)4,12 -2(-)4,12	12 1.1 (47) 14 (49) 14 (49) 14 (49) 14 (49) 14 (49) 15 (49) 14 (49) 15 (49) 14 (49) 15 (49) 14 (49) 15 (49) 14 (49) 15 (49) 14 (49)	之间之中,有""" "这些此"" "" "" "" "" "" "" "" "" "" "" "" "" "	$\label{eq:constraints} \begin{split} &-112,462,5\\ &-112,564,1\\ &-112,564,1\\ &-114,564,1\\ &-11$	$\begin{split} &-1128, q, \bar{q}, \\ &-124, q, \bar{q}, \\ &-142, $	$\begin{array}{c} 12 (2 0 0, 5)\\ 12 (2 0 0, 6)\\ 12 (2 0 0, 6)\\ 13 (2 0, 6)\\ 13 (2 0, 6)\\ 14 ($	274630,7 271544,1 271544,1 271544,1 271644,8 274544,4 274544,4 274544,4 274544,4 27171,2 27171,4 27171,2 27171,4 27171,4 27274,8 27274,4 272744,4 2727		- 《大学》 - 《大学 - 《 - 《大学 - 《 - 《 - 》 - 《 - 《 - 《 - 》 - 《 - 《 - 》 - 《 - 《 - 》 - 《 - 》 - 《 - 》 - 《 - 》 - 《 - 》 - 《 - 》 - 》 - 》 - 》 - 》 - 》 - 》 - 》	$\label{eq:constraints} \begin{split} &= \frac{1}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} +) (262, 2) & (77, 1) & (7362, 4) \\ +) (131, 4) & (742, 4) & (7362, 4) \\ +) (131, 4) & (732, 4) & (7362, 4) \\ +) (127, 4) & (732, 4) & (732, 4) \\ +) (127, 4) & (732, 4) & (732, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, 4) & (731, 4) \\ +) (127, $
Partian Harrow 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10\\ 101\\ 101\\ 101\\ 101\\ 101\\ 101\\ 101\\$	$\begin{array}{c} 1>2_{1}, \\ 1>1_{1}<2_{2}, \\ 0, \\ 1>1_{1}<2_{2}, \\ 0, \\ 1>2_{2}<2_{3}, \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \\ $	1:	12 1.1 4.4 14	$\label{eq:2.1} \begin{array}{c} 1 \\ -1 \\ -1 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ $	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{2}, S\\ +11 \mathrm{Me}_{2}, S\\ +$	$\begin{split} -110 [m, -6] \\ -140 [m, -6] \\ -1$	1279.0.6 1279.0.6 1279.0.7 1279.0	2446,86,3 2471,46,4,4 2471,46,4 2464,46,4 2444,47,47,47 2444,47 2444,47,47 2444,47,47 2444,47 2444,47,47 2444,47,47 2444,47 24			$\begin{split} &= \frac{1}{2} \frac{2}{2} \frac{2}{2} \frac{2}{2} \frac{1}{4} \frac{1}{4} \frac{1}{2} \frac{1}{2} \frac{2}{2} \frac{1}{2} \frac{1}{2}$	$\begin{array}{c} -1362,2 \\ -1361,3 \\ -1361,3 \\ -1361,3 \\ -1361,3 \\ -1361,3 \\ -1361,3 \\ -1361,3 \\ -1361,4 \\$
Partian Page 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 1272, \ d\\ 1119, \ d\\ 1119, \ d\\ 1112, \ d\\ 1112$	1:	12.1.1.4.20 2.4.1.4.20 2.4.0.1.7.1. 2.4.0.1.7.1. 2.4.0.1.7.2.2. 2.4.0.1.7.2.7. 2.4.1.1.7.2.7. 2.4.1.1.7.2.7. 2.4.1.1.7.2.7. 2.4.1.1.7.2.7. 2.4.1.1.7.2.7. 2.4.1.1.7.2.7. 2.4.1.1.7.7.7. 2.4.1.1.7.7.7.7. 2.4.1.1.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	2002 1 2005 1 2006 4 2006 4 2006 4 2007 4	$\label{eq:constraints} \begin{array}{c} -112Me_{2}, 5\\ -112Me_{2}, 12\\ -122Me_{2}, 12\\ -122Me_{2}$	- 1130 m, -6 - 144 M, -0 - 144 M, -1 - 14	$\begin{array}{c} 12750.5\\ 12750.5\\ 12400.1\\ 12400.1\\ 12400.5\\ 12400$	274,244,24,2 271,244,1,44,1,44,24,24,24,24,24,24,24,24,24,24,24,24,			$\begin{split} &-\frac{1}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} -1362, 2 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 3 \\ -1361, 4 \\ -136$
Pustion Pase 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	19 19 19 19 19 19 19 19 19 19	$\begin{array}{c} 1 > 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	1:	12 1.1 (4) 1.	2002 1 2009 4 2014 5 2014 5	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{2}, S\\ +11 \mathrm{Me}_{2}, \mathrm{Me}_{3}, $	- 110×6-6 - 143×6-0 - 143×6-0	12750.5 12700.5 12700.5 12705.7 12005.7 120	2446(4), 7 241(4), 4, 1, 241(4), 4, 1, 241(4), 4, 1, 244(4), 4, 244(4), 4			- 12914, 1 - 11914, 1 - 1191	$\begin{array}{c} -1.962, 2 \\ -1.962, 2 \\ -1.914, 0 \\$
Patian Pace 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 1 > 1 > 1 \\ 0 < 0 \\ 1 < 1 \\ 0 < 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	1:	12.1.1.4.20 2.4.1.4.20 2.4.0.1.7.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	$\begin{array}{c} -292, \ i \\ -2-96, \ i \\$	$\label{eq:constraints} \begin{array}{l} -112, 866, 5\\ -112, 566, 12\\ -132, 12\\ -132, 1$	$\begin{split} -& 110 \mathrm{e}_{1} \mathrm{e}_{2} \\ +& 14 \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \\ +& \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \\ +& \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \\ +& \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \\ +& \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \\ +& \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \mathrm{e}_{2} \\ +& \mathrm{e}_{2} \mathrm{e}$	$\begin{array}{c} 12750.5\\ 12400.1\\ 12400$	$\begin{array}{c} 2+6_{1}(u_{1}, u_{2})\\ 2+1_{1}(u_{2}, u_{1})\\ 2+1_{1}(u_{2}, u_{2})\\ 2+1_{2}(u_{2}, $		$-\frac{1}{2},1$	$\begin{split} &-\frac{1}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} -1362, 2 \\ -1361, 3 \\ -137$
Protien Prove 4	$\begin{array}{c} 10 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 12.75\\ 12.175\\ 13.175\\ 14.12\\ $	1:	12.1.1.4.2.4 1.4.4.4.4 1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	2002 1 2009 4 2004 4	$\begin{split} &-112 \mathrm{Me}_{12}, 5 \\ &-122 \mathrm{Me}_{22}, 5 \\ &-122 \mathrm{Me}_{22}, 5 \\ &-122 \mathrm{Me}_{22}, 5 \\ &-122 \mathrm{Me}_{22}, 5 \\ &-1224 \mathrm{Me}_{22}, 5 \\ &-1244 \mathrm{Me}_{22}, 5 \\ &-1244$	$\begin{split} &-1100 + 6 \\ &-144 + 6 + 0 + 0 \\ &-144 + 6 + 0 + 0 \\ &-144$	$\begin{array}{c} 12750.5\\ 12750.5\\ 1290.5\\ 1290.5\\ 1290.5\\ 1210.$	244(3); 247(3); 247(3); 247(3); 247(3); 248		$\label{eq:constraint} \begin{array}{c} -3,2,3,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,$	$\begin{split} &-\frac{1}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} -1.04.2, 2 \\ -1.04.2, 2 \\ -1.04.2, 3 $
Protion 19400 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 1 > 1 \\ 2 > 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	1:	13.1.1.4.20 14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	$\begin{array}{c} -292, 1\\ -296, 0\\ +9, -296, 0\\ -$	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{2}, 5\\ +112 \mathrm{Me}_{2}, 1\\ +132 \mathrm{Me}_{2},$	$\begin{split} &-1128\times f_{1}^{2} \\ &+1248\times f_{2}^{2} \\ &+$	$\begin{array}{c} 12750.5\\ 12400.1\\ 12400$	2446,00,1 2471,464,164,1 2471,464,164,2 2464,00,164,164,2 2464,00,164,164,2 2464,00,164,164,164,164,164,164,164,164,164,164		$\begin{array}{c} -3,3,4\\ -3,4,4\\ -3,4,4\\ -3,4,4,4\\ -4,4,$	$\begin{split} &= \frac{1}{2} \frac{2}{2} \frac{1}{2} \frac{1}{2}$	$\begin{array}{c} +) g_{12}(2, 2) & (7,7,1) & (7,2)_{12}, 2) & (7,2)_{12}, \\ +) g_{12}(2, 3) & (4,1) & (2,1)_{22}, \\ +) g_{12}(2, 3) & (4,1)_{22}, & (2,2)_{22}, \\ +) g_{12}(2, 4) & (4,1)_{22}, & (4,2)_{22}, \\ +) g_{12}(2, 4) & (4,2)_{22}, & (4,2)_{22}, \\ +) g_{12}($
Partiana 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10 \\ \hline \\ M_{11}^{(1)} = 1-10 \\ m_{11}$	$\begin{array}{c} 12 + 2 \\ 12 + 12 \\ 13 + 12 \\ 14 \\ 12 + 12 \\ 14 \\ 12 \\ 14 \\ 12 \\ 14 \\ 12 \\ 14 \\ 14$	1:	12.1.1.4.4.5 1.4.4.4.5 1.4.4.4.5.7 1.4.4.4.5.7 2.4.4.4.4.7 2.4.4.4.4.4.7 2.4.4.4.4.4.7 2.4.4.4.4.4.7.7 2.4.4.4.4.4.7.7 2.4.4.4.4.4.7 2.4.4	$\begin{array}{c} -292, \ i \\ -296, \ i \\$	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{12}, 5 \\ -112 \mathrm{Me}_{22}, 5 \\ -112 \mathrm{Me}_{22}, 5 \\ -122 \mathrm{Me}_{2$	-1129.4.6 -129.4.6 -129.4.6	$\begin{array}{c} 12750.5\\ 12400.1\\ 12400.1\\ 12400.1\\ 12400.1\\ 12400.0\\ 12400$	244 (24) - 24 247 (2		$\begin{array}{c}$	$\begin{split} &-\frac{1}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} -1) 42.2 & 0.7.1 & 1.2 & 2742.4 \\ -1) 47.1 & 0.7.1 & 1.2 & 2742.4 \\ -1) 47.1 & 0.7.1 & 1.2 & 2742.4 \\ -1) 47.1 & 0.7.1 & 1.2 & 2742.4 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 2742.4 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -1) 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -10 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -10 47.1 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 & 1.2 \\ -10 47.1 & 1.2 &$
Patian 4 4 5 6 6 7 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	$\begin{array}{c} 10 \\ \hline \\ 10 \\ - $	$\begin{array}{c} 12.75\\ 12.175\\ 23.182\\ 44.25\\ 12.172\\ 44.25\\$	1:	12 1.1 4 4 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	$ \begin{array}{c} 1 \\ -1 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ $	$\begin{split} &-112 \mathrm{Me}_{2}, 5 \\ &-112 \mathrm{Me}_{2}, 5 \\ &-112 \mathrm{Me}_{2}, 5 \\ &-112 \mathrm{Me}_{2}, 5 \\ &-124 \mathrm{Me}_{2}, $	$\begin{split} -1108 + \frac{6}{2} \\ -1428 + \frac{6}{2} \\ -1488 + $	$\label{eq:constraints} \begin{array}{c} 1275.0, g \\ 124.006, L \\ 120.005, L \\ 12$	$\begin{array}{c} 2+6_{1}(w_{1}, y_{2}, y_{3}, y_{4}, y$		$\begin{array}{c}$	$\begin{split} &-\frac{1}{2} \frac{1}{2} $	$\begin{array}{c} -1.5(2,2) & 0.75, 1, 1 & 2.742, 4 \\ -1.15(1,3) & 0.74, 4 & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) & 0.742, 4 \\ -1.15(1,3) &$
Putiany name 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	19 19 19 19 19 19 19 19 19 19	$\begin{array}{c} 1 > 1 \\ 1 > 1 \\ 2 > 0 \\ 1 > 1 \\ 1 > 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	1:	12.1.1.4.4.4. 13.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	$\begin{array}{c} -292, \ 1\\ -296, \ 4\\ -296$	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{2}, 5\\ +112 \mathrm{Me}_{2}, 1\\ +132 \mathrm{Me}_{2},$	$\begin{split} - 110 \lambda_{1} + \frac{1}{6} & 0 \\ - 1 & 0 \\ - 1 & 0 \\ + 1 $	12750.5 12760.7 12760.7 1270.4 127	$\begin{array}{c} 2+6_{12}(x_{1},y_{2},y_{2},y_{3},y_{4},y_$		$\begin{array}{c} -3,3,4,4\\ -3,3,4,4\\ -4,3,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,4,4\\ -4,4,4,$	$\begin{split} &-\frac{1}{2} \frac{2}{2} \frac{2}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} -1362,2 \\ -1361,0 \\ -1361,0 \\ -1361,0 \\ -1371,0 \\ -1371,0 \\ -1372,0 \\$
Partiana 4 4 5 6 6 6 6 7 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	19 19 19 19 19 19 19 19 19 19	$\begin{array}{c} 1 > 1 \\ 1 > 1 \\ 2 > 0 \\ 1 > 1 \\ 1 > 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	1:	12 1.1 + 4 - 4 2.4 + 4 - 4 2.4 + 4 - 5 2.4 + 1 - 5 2.	$\label{eq:constraints} \begin{array}{c} 1 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ $	$-11246_{1,2}, 5$ $-11246_{2,3}, 5$ $-11246_{2,3}, 5$ $-11246_{2,3}, 5$ $-11246_{2,3}, 5$ $-11246_{2,3}, 5$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12446_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 6$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 7$ $-12466_{2,3}, 6$ $-12466_{2,$	$\begin{split} -1108 + \frac{6}{2} \\ -1428 + \frac{6}{2} \\ -1488 + $	12750.5 124005.1 12405.7 12505.7 12			$-\frac{1}{2}, \frac{1}{2}, $	$\begin{split} &-\frac{1}{2} \frac{2}{2} \frac{1}{2} $	$\begin{array}{c} -1.362, 2 \\ -1.362, 2 \\ -1.364, 3 \\$
Partianae 4 6 6 7 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	$\begin{array}{c} 10 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c}$	1:	12 1.1 + e - A 1 + e - A 1 + e - A 2 + a + a + a - a + a + a + a + a + a + a	$\begin{array}{c} -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -2 + 2 + 2 \\ -$	-112,002,5 -112,002,12 -112,0	$\begin{split} &-1129 + 6 \\ &-144 + 6 + 0 \\ &-144 + 6 + 0 \\ &-144 + 6 + 0 \\ &-144 + 0 \\ &$	$\begin{array}{c} 12750.5\\ 121400.1\\ 121400.1\\ 121400.1\\ 12140.0\\ 12$	$\begin{array}{c} 2+6_{1}(w_{1},t)\\ 2+7_{1}(w_{2},t)\\ 2+7_{1}(w_{2},t)\\ 2+7_{1}(w_{2},t)\\ 2+7_{1}(w_{2},t)\\ 2+7_{2}(w_{2},t)\\ 2+7_{$		$\begin{array}{c} - \frac{1}{2} \frac{1}{$	$\begin{split} &-\frac{1}{2} \frac{1}{2} $	$\begin{array}{c} -1362, 2 \\ -131, 3 $
Partiana Partiana 4 4 4 4 4 4 4 4 4 4 4 4 4	19	$\begin{array}{c} 1 > 1 \\ 1 > 1 \\ 1 > 0 \\$	1:	12.1.1.4.4.4. 1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	$\begin{array}{c} -\cos (1+1) \\ -\cos ($	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{2}, 5\\ +112 \mathrm{Me}_{2}, 1\\ +132 \mathrm{Me}_{2}, 1\\ +132 \mathrm{Me}_{2}, 1\\ +122 \mathrm{Me}_{2},$	$\begin{split} -& 1129 + 6 \\ -& 144 + 6 + 0 \\ -& 144 + 6 + 0 \\ -& 144 + 6 + 0 \\ -& 144 + 6 + 0 \\ -& 144 + 0$	$\begin{array}{c} 12750.5\\ 12400.1\\ 12400$	2446,86,7 2471,46,1,46,1 2471,46,1,46,1 2474,46,4,4 2444,47,47,47,47,47,47,47,47,47,47,47,47,		$\begin{array}{c} -3,3,4,4\\ -3,4,4,4\\ -3,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4,4,4\\ -4,4,4,4,4,4,4,4\\ -4,4,4,4,4,4\\ -4,4,4,4,4,4,4,4,4,4,$	$\begin{split} &= \frac{1}{2} \frac{1}{2}$	$\begin{array}{c} -1362, 2 \\ -131, 3 $
Partiana Partiana 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	$\begin{array}{c} 10 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 1 > 1 \\ 2 > 0 \\ 1 > 1 \\ 2 > 0 \\ 4 \\ 2 > 0 \\ 1 > 0 \\ 2 >$	1:	12 1.1 + e - A 1 + e - A 1 + e - A 2 + a + a + a - a + a + a + a + a + a + a	$\begin{array}{c} -2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 $	$\label{eq:constraints} \begin{array}{c} -112 \mathrm{Me}_{12}, 5 \\ -112 \mathrm{Me}_{23}, 5 \\ +122 \mathrm{Me}_{23}, 12 \\ +122 \mathrm{Me}_{23},$	$\begin{split} &-110 \mathrm{ke}_{-6} = 0 \\ &-100 \mathrm{ke}_{-6$	12750.5 124006.1 124006.1 124006.1 123206.5 125206.	2446,86,7 2471,86,1 2471,86,1 2471,86,1 2484,86,8 2484,87,9 2484,87,9 2484,87,9 2484,87,9 2484,87,9 2484,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,87,9 2494,97,97,97,97,97,97,97,97,97,97,97,97,97,		$\begin{array}{c} - \frac{1}{2} \frac{1}{$	- 12914.1 - 12919.1 - 1291	$\begin{array}{c} -1.962, 2 \\ -1.962, 2 \\ -1.964, 3 \\ -1.964, 3 \\ -1.964, 4 \\$



$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	$\begin{split} & q(x)_{i}(x$	$\begin{array}{c} 1+ f_{1} \wedge (n, k, -1) \\ = 1 + (n, n, k, -1) \\ = 1 + (n, n, k, -1) \\ = 1 + (n, k, k, -1) \\ = 1 +$	$\begin{array}{l} 1 & mag_{1,2} \in \mathcal{A} \\ = mag_{1,2} = 1 \\ -mag_{1,2} = 1 \\ -mag_{1,2$	$\label{eq:constraints} \begin{split} &-5h^{22}, 11\\ &-1 12 85, 22\\ &-10 22, 62 32, 52\\ &-10 22, 62 32, 12 32, 12 32 32 32 32 32 32 32$	$\begin{array}{c} + \delta_{1} \delta_{1} \delta_{1} \delta_{2} \delta_{1} \delta_{2} \delta_{1} \delta_{2} \delta_{1} \delta_{2} \delta_{$	$\begin{array}{c} - (2 \phi_{1}) \\ - (2 \phi_{2}) \\ - (2 \phi_{2$	(1) 有意之来。 (1) 有关, (1) 有 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	11年度上海。2 11日、人口、小山、小山、小山、小山、小山、小山、小山、小山、小山、小山、小山、小山、小山、	50044.0 52736.6 52736.6 52736.6 527446.7 53646.7 53646.7 53646.7 53646.7 54656.7 54666.7 54666.7 54	$\begin{array}{c} -11 \sigma_{1,0} \\ + -12 \sigma_{1,0} \\ + -12 \sigma_{1,0} \\ + -12 \sigma_{1,0} \\ + 12 \sigma_{1,0}$	一人前有有一个。 人的有多人的。 人的有多人的。 人们的有多人的。 人们的有多人的。 人们的有多人的。 人们的有多人的。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的有多人。 人们的一个人们, 人们的一个人们。 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们, 人们的一个人们。 人们的一个人们, 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们, 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们。 人们的一个人们, 人们的一个人们的一个人们的一个人们。 人们的一个人们的一个人们。 人们的一个人们的一个人们, 人们的一个人们的一个人们的一个人们。 人们的一个人们的一个人们的一个人们, 人们的一个人们的一个人们, 人们的一个人们的一个人们的一个人们, 一个人们的一个人们的一个人们, 一个人们的一个人们, 一个人们的一个人们的一个人们, 一个人们的一个人们的一个人们, 一个人们的一个人们的一个人们, 一个人们的一个人们的一个人们也可能是一个人们也也可能是一个人们也也可能是一个人们也也可能是一个人们也可能是一个人们也可能是一个人们也可能是一个人们也可能是一个人们也可能是一个人。也可能是一个人们也可能是一个人们也也可能是一个人。也可能是一个人们也也也可能是一个人也也也可能是一个人也也也也可能是一个人也也也可能是一个人。也可能是一个人也也也也也可能是一个人也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也也	$\begin{array}{c} (a_{1}^{2},a_{2}^{-1},a_{3}^{-1},a_{3}^{-1},a_{4$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{l} \xi_{1,0} \in [0, d] \\ = \xi$	(1)(68,2) (1)(68,4) (1)(68,4) (1)(68,4) (1)(1)(2),6 (1)(1)(1)(2),6 (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1.45%).9 1.45%).9 2.45%).9 2.45%).9 2.45%.9 3.45%.8 3.45%.8 3.45%.8 3.45%.8 3.45%.4	· 新規查。 · · · · · · · · · · · · · · · · · · ·	$\begin{split} &-1f_{0}(q_{0}^{2}, t) \\ &-7f_{0}(q_{0}^{2}, t) \\ &-7f_{0}(q_{0$	- 1997, 7- - 1997, 7- - 1992, 7- - 1992, 7- - 1992, 7- - 1994, 7- - 1994, 7- - 1994, 7- - 1994, 7- - 1994, 7- - 1995, 1- - 1995	经管理公司 一定公司 一定公司 一定公司 一定公司 一定公司 一定公司 一定公司 一定		297122 297122 276942 276942 276942 276952 276522 281552 281552 281552 2915552 2915552 29155552 2915555552 2915555555555	 (1)(1), (6) (2)(2), (6) (2)(2), (7) (2)(2),		$\begin{array}{c} (+4)_{1,1} \sim (-3,4)_{1,2} = (+5)_{2,1} (0) \\ (+5)_{1,2} = (-3,4)_{1,1} = (-3,4)_{1,2} = (-3,4)_{1,1} \\ (+3)_{1,1} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,1} = (-3,4)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,1} = (-3,4)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3,4)_{1,2} = (-3,4)_{1,2} \\ (+3)_{1,2} = (-3$
$\begin{array}{c} 1 & (3) \\ 1 & (3) \\ 2 & (-1) \\ 3 & (-1) \\ 4 & (-$	$\label{eq:constraints} \begin{split} &e_{1} \in \{a_{1}, a_{2}\}, \\ &e_{1} \in \{a_{2}, a_{2}\}, \\ &e_{2} \in \{a_{2}, a_{2}\}, \\ &e_{2} \in \{a_{2}, a_{2}\}, \\ &e_{1} \in \{a_{2}, a_{2$	$\label{eq:constraints} \begin{array}{l} (4606, j) \\ (1466, j) \\ $	2. 6376. 6 2. 3648. e 3. 3648. e 3. 9382. e 3. 9382. e 3. 9486. e 3. 9486. e 3. 9698. e 3. 9698. e 3. 9698. e 3. 9698. e 4. 10098. e 3.	$= - \frac{1}{2} $	- Charten, Me en Marken, I - Factore, J - Factore, J	 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	电容易 建 化学数据 化合理 化学数据 化合理 化分析 化合理 化分析 化合理 化分析 化合理 化合理 化合理 化合理 合理 合理 合理 合理 合理 合理 合理 合理 合理 合理 合理 合理 合	1. 有效建立。正 公司委員会、正 下的委員会、正 下的有效。正 其他的支援、保 等的支援、保 等的支援、保 等的支援、保 等的支援、 書 等的支援、 書 等的支援、 書 等 的、 之 等 。 二 章 一 章 一 章 一 章 一 章 一 章 一 章 一 章 一 章 一 章	1.2000年1月 2.147年1月 2.147年1月 1.161年2月 1.161年2月 1.161年2月 1.151年3月 1.151年3月 1.151年3月 1.151年3月 1.151年3月 1.151年3月 1.1	-1.21.0 -1.21.0 -1.21.0 -1.21.0 -1.41.0 -1.40.0 -1.42.0 -1.42.5	 中的名称。2 中的名称。2 中的名称。4 中的名称。4 中的名称。2 中的名称。2 中的名称。2 中的名称。2 中的名称。2 中的名称。2 中的名称。2 中的名称。2 中的名称。4 	$\begin{array}{c} w_{2}(1,1) & (A_{2},2) & (w_{2}(1,1)) \\ w_{1}(2,1) & (A_{1},0) & (1,1)(A_{2},2) \\ w_{1}(1,1) & (A_{1},1) & (1,1)(A_{1},0) \\ w_{1}(2,1) & (A_{1},1) & (1,1)(A_{1},0) \\ w_{1}(2,1) & (A_{1},2) & (A_{1},1) & (1,1)(A_{1},0) \\ w_{1}(2,1) & (A_{1},2) & (A_{1},1) & (1,1)(A_{1},0) \\ w_{1}(2,1) & (A_{1},2) & (A_{1},1) & (1,1)(A_{1},0) \\ w_{1}(2,1) & (A_{1},1) & (A_{1},1) & (A_{1},1) \\ w_{1}(2,1) & (A_{1},1) &$
$\begin{array}{c} 1 & (2) & ($	$\label{eq:constraints} \begin{split} &-cd_{1}(z)\\ &-cd_{2}(z), \ v \in \mathbb{R}^{n}, \ v \in \mathbb$	1 (n)2,5 2 (n)2,5 2 (n)2,5 2 (1)2,6 2 (1)2	1-1-422-10 1-422-10 1-425-5 2-45-5 2-45-	$\label{eq:constraints} \begin{array}{l} +1\partial_{t}^{2}(x) +\\ +1$	$\label{eq:constraints} \begin{split} &-\lambda \hat{a}_1 + a_{1,1} \\ &-\lambda \hat{a}_1 + \hat{a}_2 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_1 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_1 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_2 + \hat{a}_1 \\ &-\lambda \hat{a}_1 \hat{a}_2 \hat{a}_1 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_2 \hat{a}_1 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_2 \hat{a}_1 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_2 + \hat{a}_2 \\ &-\lambda \hat{a}_1 \hat{a}_2 + \hat{a}_2 \end{split}$	 (1)、 (1) <	《金髓》、集 《李明》、" 《中国》、" 《中国》、李 《帝国》、李 《帝国》、 《帝国》、 帝国》、 帝国》、 帝国》、 帝国》、 帝国》、 帝国》、 帝国》、	11) 有害的主要 11) 有害的主要 12) 有害族主要 12) 有害族主要 13) 有害族主要 14) 有害族主要 14) 有害族主要 14) 有害, 14) 有害。 14) 有意。 14) 有意 14) 有意。 14) 有意 14) 有 14) 有 14	为"我们去",早 一门的时候,一日 "我们的你们,我们 "我们的你们,你们 "我们的你们,你们 "我们的你们,你们 "我们的你们,你们 "我们的你们,你们	+1, 1, 9 +1, 41, 9 +1, 45, 10 +1, 46, 10 +1, 46, 10 +1, 46, 10 +1, 47, 10 +1, 47, 5		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{split} & < \{ (n) \\ & < ((n) \\ &$	《····司号:房 (···司号:房 ···司马子:房 ···司马子:房 ···司马子:房 ···司马子:房 ···司马子:房 ···司马子:房 ···司马子: ···司马子: ···司马子····司马子···司马子·····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子····司马子·····司马子····司马子····司马子····司马子····司马子····司马子····司马子·····司马子····司马子····司马子····司马子····司马子·····司马子·····司马子····司马子····司马子····司马子·····司马子·····司马子·····司马子······司马子·····司马子····司马子·····司马子····司马子····司马子·····司马子······司马子·······司马马·····司马马·····司马·····司马·····司马·····司马·····司马·····司马······	6. 如此方式, 他 、 的复数人 他 、 的复数人 他 人 他们的发展, 他 不知道的发展, 他 不知道的发展, 他 不知道的发展, 他 不知道的发展, 他 人 他们的人, 他 不是的时候, 他 不是的时候, 他 不是的时候, 他	· 自己的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人	$\begin{split} & + \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \\ & - \frac{2}{3} + \frac{2}{3} \frac{1}{3} $	- 1991-1-10 - 1994-199 - 1995-199 - 1995-199 - 1995-19 - 1995-19 - 1995-19 - 1995-19	出象的文化。特 人名英格兰人姓 化学校会,这 化学校会,这 人学校的人会 资格的人会 资格的人	1、1、111001,11 1、121112,12 1、12112,12 1、12112,12 1、12112月,12 1、12112月,12 1、12112月,12	公司前有之。時 公司(1993年)。2 前前有有之。2 前前有有之。2 前前有有之。2 前前有有之。2 1 前前有有一百	 v (11) w v (13) d v (134) d 	-> 4642 1、2 -> 41 (14 4、2 -> 41 (14 4、2 -> 41 (12 1、2) -> 41 (12 1、2) -> 41 (12 1、2) -> 41 (12 1、2) -> 41 (12 1) -> 41 (1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\label{eq:constraints} \begin{split} & k_1 d_2 (, \phi) \\ & (k_1 d_2 (, \phi) + (k_1 d_2 d_2 d_2 d_3 d_3 d_3 d_3 d_3 d_3 d_3 d_3 d_3 d_3$	\$157.9.4 \$4.149.6 \$4.149.6 \$4.149.6 \$4.147.6.6 \$4.447.6.6 \$4.442.6 \$4.448.6 \$4.448.6 \$4.448.6 \$4.468.6	1.46963.4 1.42964.4 1.42964.4 1.42944.4 1.42944.4 1.42944.4 4 1.42944.4 1.4494.41.4494.4 1.4494.4 1.4494.4 1.4494.41.4494.4 1.4494.4 1.4494.4 1.4494.4494.41.4494.4494.4494.4494.4494	人口的意义。 用的这些人,那 人们的意义。 一个有效是不可能。 一个有效是不能能。 一个有效是不能能。 一个有效是不能能。 一个有效是不能能。 一个有效是不能。 一个有效是不能。 一个有效是不能。 一个有效是不能。 一个有效是不能。 一个有效是不是, 一个有效是。 一个有。 一个有效是。 一个可能是。 一个可能是。 一个一个可能是。 一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	- 1 4 4 1 2 - 1 月 3 月 - 2 月 3 月 - 3 月 4 月 - 3 月 4 月 - 1 4 5 1 4 - 1 4 5 1 6 - 1 4 5 1 6	12、16款,表 (展文化,各)注意成化,的 (原始格,表 一通时时,限	1 (462), 9 1 (612), 7 1 (612), 7 1 (62) (6, 6 1 (62) (6, 6 1 (62) (6, 6)	8 #3 5 2 3 1 = 2 # 6 1 7 1 = 4 = 2 2 2 2 2 = 4 = 5 4 1 8 1 = 4 = 1 8 1 1	~1.147.0 > 1.401.0 < 1.411.0 < 1.421.0 < 1.427.0	- 6 8 2 5 . 6 - 6.4 2 6 . 1 - 4 6 2 7 . 2 - 4 6 2 4 . 1 - 6 6 2 4 . 1	《如今月1月8日,中南省1月8日,至至1月2月1日 《四月2月1日 - 有後月2日,至月2月2月1日 《四月2月1日 - 有後月2日,1月2月1日 《四月2月1日 - 有後月2日。1月1日月1日 《四月2月1日 - 有後月2日,1月1日月1日
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\label{eq:constraints} \begin{split} & c_1 d_{1,1}^2 + c_2 \\ & c_1 c_2 d_{1,1} + c_1 c_2 + c_2 \\ & c_1 c_2 d_{2,1} + c_1 c_2 + c_2 \\ & c_1 c_2 d_{2,1} + c_1 c_2 + c_2 \\ & c_1 c_2 d_{2,1} + c_1 c_2 + c_2 \\ & c_1 c_2 c_1 c_2 + c_1 c_2 + c_2 \\ & c_1 c_2 c_1 c_2 + c_1 c_2 + c_2 \\ & c_1 c_2 c_1 c_2 + c_1 c_2 + c_2 \\ & c_1 c_2 c_1 c_2 + c_1 c_2 + c_2 \\ & c_1 c_2 c_2 + c_1 c_2 + c_2 \\ & c_1 c_2 c_2 + c_1 c_2 \\ & c_1 c_2 c_2 + c_2 \\ & c_1 c_2 + c_2 \\ & c_2 + c_2 \\ & c_1 c_2 + c_2 \\ & c_1 c_2 + c_2 \\ & c_2 + c_2 \\ & c_2 + c_2 \\ & c_1 c_2 + c_2 \\ & c_1 c_2 + c_2 \\ & c_2 + c_2 \\ & c_2 + c_2 \\ & c_1 c_2 + c_2 \\ & c$	\$157.9.4 \$4.149.6 \$4.149.6 \$4.149.6 \$4.147.6.6 \$4.447.6.6 \$4.442.6 \$4.448.6 \$4.448.6 \$4.448.6 \$4.468.6	5.45,04,4 5.45,04,4 5.45,04,4 5.45,04,4 5.45,04,4 5.45,04,4 5.45,04,4 5.45,04,4 5.45,04 5.45,4 5.45,4 5.45,4 5.45,55,5 5.45,5 5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5	中國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國國	 (101)[1] (101)[2] 	- 2 月、月 人下に命、日 人下に合いた - 1月6日、秋 - 1月6日、秋 - 1月6日、春	1-601-9 1-696-2 -499-8	1.两款银币,集 1.46是1.46,有 1.46.29346,21	公开新闻的,第 《前月前录》) "新月前来,我 李明月前期,"	21-00,0 21-11,0 21-12,0 21-12,5	-4613.2 -993.4	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	有外国。有 中国的。 中国的。 中国的。 中国的。 中国的。 中国的。 中国的。 中国的。	5 4 1	2.热食品品。 2.热食品品。 2.热食品品。 2.热食品品。 2.热心的食品。 2.小心时有点。 2.小的的食品。 2.小的的食品。 2.小的肉肉、 2.小的食品。 2.小的食品。 2.小吃	 - 10. 	 1	4、1996、19 4、1996、19 - 1967、19 - 1967、19	·方田志,应 普古明 - 編	年4月11日,午 1月1日日(1月	1.19-1-10-6、3. 1.16-1-11-10-1-1	이루에서 1월 이루에서 1월	一些难以得。" 《西部序册 - 1	《1996年1月): 《建二县 - 李正年年月),建 《1996年1月月): 《考博二隆 - 李正年年月),建
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	四音音音。 4. 海音音音, 4. 海音音音, 4. 中 《音音音音》, 4. 中 《书音音音》, 4. 中 《书音音》, 4. 中 《书音》, 4. 中 《书音》, 4. 中 《书音》, 4. 中 《书音》, 4. 中 《书书》, 4. 中 《书书》 4. 中 《书】 4. 中 《书书》 4. 中 《书书》 4. 中 《书书》 4. 中 《书】 4. 中 《书书》 4. 中 《书书》 4. 中 《书书》 4. 中 《书】 4. 中 (1. 中 》》 4. 中 (1. 中) 《书】 4. 中 (1. 中 (1. 中) 》 4. 中 (1. 中) 》 4. 中 (1. 中) 》 4. 中 (1. 中) 》 4. 中 (1. h) 》 4. h	2.6月1日21.6 2.6月122.6 2.6月142.6 2.6月14.6 2.6月14.6 2.64.6 2.64.6 2.64.6 2.64.6 2.64.6 2.74.6 2.14.6 2	5 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	- 1,16, 9 - 2,26, 9 - 2,26, 9 - 2,26, 9 - 2,26, 9	-7426,3 -7448,3 -7433,3	- 161 . 4 - 161 . 6	499.8 (* 102.7				十两种原料 []	一致,何,可二言者臣,使二言自言意,臣
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$\begin{array}{c} & \mathrm{Stat} = -\mathrm{stat} \\ & \mathrm{Stat} = -\mathrm{stat} \\ & \mathrm{Stat} = -\mathrm{Stat} = -\mathrm{Stat} \\ & \mathrm{Stat} = -\mathrm{Stat} = -\mathrm{Stat} \\ & \mathrm{Stat} = -S$	如此情,作 一切开关。王 的情况之子 化子的骨,具 化子的骨,具 化子的骨,具 化子的骨,具 化子的骨,具 化子的骨,具 化子的骨,是 化子的骨,是 用 一切骨骨, 是	1020-01,1 104-103-10 200-103-10 115-1042-10 115-1042-10 104-00-10 104-00-0 104-00-0 104-00-0 104-00-0 104-00-0 104-00-0 104	2、历行操,等 直行合称形式属 至如至于接,端 百世发行来,可	1349.5	- 1945. 2	-161.7 -761.3	1 1510 1 2510	自动的复数 2.00 2.00 (15.00) (16.00	19463219 19422124	- 15年代1月 2月末年12日	· 医石浆液、盐	-861.0 540.0 1777.0
 211 (2007) 211 (2007)	346649,使 441-148,他 441-148,他 441-148,他 251-148,他 251-148,他 251-148,他 251-148,他	各的十分年。) 有过于杨雄、华 百万代建筑,为 百月代建筑,为 百月代建筑, 百月代建筑, 百月代建筑, 百月代杨元、 前	1911-03-03 1912-03-03		- 新门集号,他 - 杨介相音,有	-444.7	2月13月钟,秋 1月23月,夏	,不是了这,为 实外局实际,容	100000.5 202306.5	-168.5 -173.6	 (a) 6 (20) (20) (a) 6 (3) (2) 	 (15) d. (15) d. (22) 22 (2) d. (15) d. (15) d. (22) (2) (3) (15) d. (15) d. (22) (3)
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All Other Carlos 1 1984 2004 <t< td=""><td>(4) (1) 按。) (4) (1) (2) (2) (3) (4) (1) (3) (3) (4)</td><td>气气烧清洁、复 气的复数用,接 气的过程起来,每</td><td>了两年空外,亲</td><td>* 1 45 4 . 7 - 1 10) , Ap</td><td>14771.2 14842.0</td><td>化化合物 计标识 化化化合物</td><td>18126.5 (8432.2</td><td>于北方印度、瑞 公司公司、南</td><td>200100.0</td><td>-1×4.1 ×1×2.8</td><td>- (10) k. 7 - (10) (25, 7</td><td></td></t<>	(4) (1) 按。) (4) (1) (2) (2) (3) (4) (1) (3) (3) (4)	气气烧清洁、复 气的复数用,接 气的过程起来,每	了两年空外,亲	* 1 45 4 . 7 - 1 10) , Ap	14771.2 14842.0	化化合物 计标识 化化化合物	18126.5 (8432.2	于北方印度、瑞 公司公司、南	200100.0	-1×4.1 ×1×2.8	- (10) k. 7 - (10) (25, 7	
 10:44 [1 + 7] 10:42 [1 + 6] 10:42 [1 + 6] 10:43 [1 + 6] 10:43 [1 + 6] 10:43 [1 + 6] 10:44 [1 + 6] 	仁 [詩、傳 1999]、國 18月22月28 18月1日,國 19月1日,國	二川日配原 向	10451.8	~178.4	- 10 10 10 2 - 30 - 10 5 (12 - 30	-919.8 -947.1	10-11.1	20151.6	51845.6 51845.0	-1.99.3 -201.4	-10161.9 -10285.9	wan a sin a bain d
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12 1913 12 134 12 1947 12 14 12 13 1947 12 14 12 14 1947 14 14 15 1948 12 14		18945.4	24007.5	-156.6	-9-140.3		13925.5	13430.5	22648.5	-210.9	-10628.0	- vez. 2 (119.4) (1282.6)
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	1641.9 1034 1	1-744 A	1-14-42-19 1-15-194-19	~1.11日,1 ~2.4月,4	- 2 + 23 - 4 - 22 - 6 - 6	二十百世,居 一十月年,居	13445.4 1985.6-4	21242.4 20442.7	22422.5 22546.4	一广复来,杨 六,代献,马	四字操作的操作符 四字读录印刷,提	人名格克 第一次参数,第一次要求等,将 人名弗克克 (名布斯克马) 建分分裂,连
	9.486	14113.1	19423.8	-111.6	- 23 5 1.4	~ 566.2	0719.9	上的来处于,自	过度中止 有, 有	- V61.8	-13 (89.0	and a state of the second state in the
5 CHITSHIE 5 CHITSHIE 5 CHITSHIE	化化物电子标 一段分析,用	12962.3	1909-1 19204-5	- 172.4 - 146.2	化化合金 2、6 化化合金 2、2	人中药菜、南 人都吃吃、菜	10615.2 10109.1	、600年年,後 日均長年代、1	建生活化煤、市 杂合生化标志工	公主命法,除 公主私法,除	一步行过的场。 3 一字作字母语,图	-17年1月前,17月1日,夏月月月,建 -19月前月日,1月月月,夏月月月,建 -19月前月日,1月月月,夏月月月,後
 1945 [1.43 N 	16933	11057.7 16905.9	111 139日,日	- (-60). (一种植的花、腹	- 4 g y _ 3	1,730-6, H 1,328-6, N	1 12 70 . 7 . 6 9 7 7 . 7	20790.7	-140.9 -176.2	-10011.1	-459.7 519.7 2292.0
5 (94)[[5+19 5 (94)[[5+28	9303.2 1996.5	16985.9	1993-001-9 1993-001-9	一年1月1日,19 1月1月1日,19	一部公司,前 一不晚小遗,即 二四年,不会,朝	-942.5 -944.0	(3377.)	58496.0	公司有法庭,参 公司支持书,书	- 147.9	19691.4 -9752.7	人名弗希尔曼 网络角尔曼 金金属美尔属
 mit[™] (~14) mit[™] (~12) mit[™] (~12) 	10~9年,4 1146年,4	16142.6 11441.0	11月1日)21日前 11月1日日月	-144.4 -141.1	- 41°, 3°, 38 - 10 d S \$. 6	- H 219 - 7 - H 214 - 2	12042.5	18195.0 17945.6	1-14月21日) 1-14月2日日	-153.2 -159.5	以后有仁健、遵 公司已在主 (14)	《母子》:"你不知道你们的你,你们不知道你?" "你说了,你们的你,你们的你啊?"你们的你?"
5 (2001) - 204 5 (2001) - 204	HHY4.4	11日的时间,12	1.12.1.5.0	-114.4	-10.5753.75	-119.2	9460.2	37128.0	2.946.0.1	2158.3	- 94N5 . [一切沙漠、草、 有无处、草、 "是是有草、睫
5. (4×) ¹¹¹ = 2.4 1. (4×) ¹¹⁴ = 2.5	林子的转,是 的自己说:他	14112.0 1412.1.8	1.16月4日,赵 十元611年,于	- 1: 10, 4 - 1: 3 1, 4	- 20 1 (2) 1 4. - 20 2 6.7 1 4	-639.1	化化银矿上码 计图案字句码	5 7 241 3 1 7 241 4	3-1286.9 1-1312.0	从东门里,面 一字白缕,除	一切精复者,的 一切与前望,意	-904.4 59.5 2141.6 -914.5 504.1 2112.2
043_1-27	P683.3	15130.6	14.785.4	-1 3 Q . B	-*200.s		1784 S 1726 B	1,2057.6	20044.0 18746.2	-147.8 -146.5	- 4266.3 - 9165.3	-100-1 579-1 2027.0 -100-1 579-1 2027.0
5 (94) - 5+28 5 (95) - 5+30	原毛标子,另 所有不易,为	14913.5 34年20月1日	生成化的糖、瘤 生成结晶的	-1277.9 -129.9	-8056.2	<> <3 < 7	-661.7	5000.6	CHARM 2	-141.2	-0103.5	·····································
5 1731 ^{- 5} - 65	4、原题、参 月的展览、静	1.40000(円 1.5000石)(約	是谁的起来,快 于太守师弟,导	-128.5 -139.6	一出建化数,22 人名金威尔尔克	- 137.2 - 236.4	为年遗居,略 与年后令,遂	23637.9 17446.0	16963.6 16978.3	-345.2 -547.6	人名美尔德 (建 人名雷瑟特尔蒂	-414.3 (44), 2492.0 -417.4 (52.3 (4092.6
4 (94) ~ 4 99 5 (94) ~ 4 54 5 (94) ~ 4 54 5 (94) ~ 4 54	9.639.9 = 144.9	15197.8	年后万庭等,2 年后万座等,2	-332.0 -123.0	-1206.2 -1237.2	- 3 78 - 7 x2 - 7	化化银子、盐 化成分析,或	17173.5	14102.4	+149.2 +141.0	- 5275.0 - 5508.1	-480.0 151.1 (192.0 -464.5 510.1 (192.0
Paye 12 C. 2010 (**126) C. 2010 (**126) C. 2011 (**126) A. 2011 (**126) A. 2011 (**126) A. 2011 (**126) B. 2012 (**146) B. 2012 (**146) B. 2012 (**146)	4725.9 8233.9	11-64-2618 11-64(-6 21-374-8	82359547 11453.4 11064.9	-1.55.1 -1.14.4	-Rutski2 -8273.2	- 1 in e ₀ , 4 - 7 in H _ 7	100年3年,唐 一张马玲,静	57335.1 17373.5 17349.3	19249-5 19263-4	-152.6 -155.7 -154.4	- 503)是,他 - 1433月前后,后	
6 781 6-194	12月1日,19 12月1日月,19	李帝子相称。1917 李帝母李绅,他	17074.0 17094.9	-136.6 -137.0	-8209.2 -8285.2	-148.2 -143.3	(七门关,有 10月10日,13	17946.3 17434.2	19294.0 (5906-0	-354,4 -346,0	-9945.5 -9362.3	-6-2.0 550.1 1992.0 -694.0 198.1 1992.0
6 283 [6 - 132	网 13-1楼,受	10月2日(日)	1.3.16 (1)	-212.2	-4299.2	- 193 - 6 - 793 - 6	人的时候,15 人的话题,15	17425.5	19-19-3 1-924-6	-155.0 -195.2	- 1566, 8 - 7 168, 0	2004.5 158.0 1058.0 2004.4 10.0 1008.0
6 1911 6-166 6 1948 6-643	6-3-52 , 9 16-2-63 , 4	15424.8 14427.6	17788-9 17184-9	~1.43.4	-8292.2	-192.0	15.52.0	33433.4	1.53会前,和	x155.0	-9378.2	-mash.d (Pd).d (1452.d
4 1942 6-635 6 1942 6-630	天使气氛。6 病分的气,6	11440.4	是27日前,94 百年1月月,19	~3.47.4 ~1.27.4	从本主命等,是 《书记》卷:是	- 192.1 - 792.2	·北阳马、李 白秋石君:5	17436.8 17439-0	3月3日1月1月 3月32日1月 3月32日1月	- 1-5.3	- 43733.4 - 43373.5	-9-6.1 160.0 1992.0 -9-5.2 550.0 1992.0
4 101_5-670 6 TH1_6-695 8 (243_6-720	active is	17434,8	\$23,04.9	-137.5	~*255.2	+ 3 to 2 , 3	在我的话。每 1999年,第	11441.3	とりつ会社、毎	-105.4 -155.4		<895. + 110.0 (992.0
6 (53)_6+720 6 (53)_6+636	8756.9 9+28.0	19439.8 30426.6	11184.9 11445-0	-198.1 -344.9	-4245.2 -4633.5	- 2 x ₆ , 3 - 5697 , 9	9.175.8	12442.4 37557.0	19929-6 19690-1	5145.3	-9503.0	- 65.0 550.0 2242.0
6 (1917) 6 - 6 3 6 6 (1917) 6 - 6 3 6 7 (1917) 6 - 6 3 6	1429.0 12045 7	15927.6	17414.3	- 医皮肤、气 小气分离、镜	407.1 -11912.0	-400.9	5426.1 12613.6	11938.1 29209.4	19640.1 98931.0	-163、3 人飞之限、道	~9560.0 ~15460.6	2.493.0 (100.0) 22422.0 (1168.0) 557.0 23422.0
6 7711 6-725 6 7711 6-725	12665.7	22199.8	242.82.1	-144.0	-12452.0	-1215.5	14312.2	10724.9	31645.7	- 345.7	-34296.8 -33366 1	-1260. A 166.6 \$147.0
6 (24) 6 - 73 9 6 (24) 6 - 74 9	12601.7	25759.0 25439.0	23542.1 24412.1	- 5 3 5 , 38 - 5 5 5 , 9	-12642.0 -12262.0	-11/3.4 -11/0.4	53935.4	26246.5	314月1,5 1月27日,在	4.52.4	-23856.1	-5 G2 15 (002 H 2142 0
4 (ME ^C on (5.) 4 (MEC ^C on (5.)	11825.7	13879.0 22639.0	14362.1 23922.1	~2.98.2 ~2.71.3	~11748.0 ~11521.0	-1121.4 -1150.4	13163.0	26083.3 20082.1	24354-0 250-12-9	- 123 19 - 109 11	-14235.3 -12752.8	-1323.7 694.0 2142.0 -1486.7 611.8 2142.0
6 (N) 6-263 6 (N) 6-273	11248.1	21724.0	2 (1) (2 . 1	~25.6.4	-18995.0	-1114	(271).0	杂开放放开上展	这些锦花的,那	×289.7	-12428.9	-1281.9 617.4 2142.0
6 (31)_6-303 6 (31)_6-303 6 (31)_6-303 6 (31)_6-303 6 (31)_6-303 6 (31)_6-303	11072.7 10941.7	21439.0 20509.0	的复数推荐 ,是 这里的事实,是	-244.0 -253.7	-58968.8 -58699.8	-1110.4 -1007.7	(2532-1 (2564-)	23774.1 23175.2	2153年,3 2476日,前	-27517 -284.1	-12156.6 -11952.3	-1239.1 A24.5 2142.0
6 (36) ¹⁶ 6 - 903 3	10848.7 10761.2	14769.0 14769.0	21042.1 21252.1	-224.9 -212.9	-10437.0 -10527.0	-1066.0 -1067.0	12246.9 12368.7	22711.9 22334.0	24342.5 24014.8	-214.3 -245.5	~11766.6 -116667.3	-1205.3 426.7 2142.0 -1184.0 424.4 2142.0
6 791_6-970 6 791_6-973	34715.X	14579.0 19200.0	1542945 113	4232.3	一步的复数装工罐	-53.46.2	12105.0	05356 3	Contract - D	-240.3	-11596.8 -11482.6	化苯基苯基 医二角管网上鼻 计中间算计数
6 1942_6~933 6 7942_6~935	14644.7 10/86.7	19299.0 19849.0	20042.1 20652.1	-205.2 -198.2 -198.3	-10165.0 -13085.0	一支款至节,是 人名阿诺顿 1 节	12020-5 11060-7	2177626 21126.4	23551.5 23536.6	-251.8 -224.5	-11357.2	
6 1741 6-470 6 1941 6-895	10467.7 10406.7	18109.0 18459.0	2041211	-198.3	**************************************	- 975.8 - 957.9	11761.0	21141.2 20536.1	20020-4 20763-1	-212.9	-11261.6	-1102.6 652.9 2142.0 -1041.4 635.8 2142.0
6 741_6~945 6 741_6~945	10541.7	38229.0	20162.1 20002.1	~140.2 -125.8	-9672.0 -9795.0	一位清算,请	1486.1	2月9日秋,色	22602.1	- 1961年	~\$1046.8	- 106月1日 - 6月月1日 - 11月21日
n 1945_6~945	10283.7	17529 B	19872.1	-1-64.8 -14-4 5	-3730.0 -3673.0	+ 433.2 - 462.4	51620.5 15564.0	公司有之后,改 公司公司与,为	22485.4	-1-00.1 -196.5	-19444,9 -19452,9	-1052.2 636.3 01662.0 -1062.5 635.0 2342.0
 TAGE Report 10 	18154.7 18363.7	17419.0	1:472.1	-151.6		-111.9	13515.4	24145.5 24922.5	32229-4 22154-3	-142.8	-10460.8 -10436.7	-3435.0 695.2 2142.0 -3029.3 695.4 2342.0
6 TML_6=970 6 TML_6=995	13121.7	17719,0 17639,0	19602.1 19542.1	-159.4 -257.5		- 4e) li , 2	11437.5	15912.1	220162-5	- 120 D	-107-0.4	-1004 6 635 5 State 6
 FML_6=970 TMT_6=970 TMT_6=995 TMT_6=1020 TMT_6=1020 		11169.0	1944-1921 1 1944-1921 1	-156.0 -156.0	-9129.0 -9136.3	- 201.5 2001.0	11407.0 11.82.1	15851.0	22026.0 21980.8	-126.3 -155.0	-30767.6 -10743.0	-1020.9 495.6 2142.0 -1016.5 615.3 5142.0
 FML_6+970 FML_6+946 FML_6+946 FML_6+1020 FML_6+1046 FML_6+1046 YML_6+10470 	14084.7			1.1.1.1.1.1.1		-14119.0	31309.5	14740.0	21945.6	~173.W	-10119.2	-1915.9 629.7 States.0
 5 TM1_6-970 6 TM1_b-995 6 TM1_6-1020 6 TR1_6-1045 6 TR1_6-1045 7 TR1_6-1045 7 TR1_6-1045 	59622.2 10032.3	17469.8	59452.5	-1 · + · 9								
 b. TML_6-930 6. TML_6-945 6. TML_6-1045 	59622,2 18852,7 18836,7	17464.8 17429.0 17399.0	19412.1 1992.1 19962.1	-159.9 -259.1 -152.5	-9469.Q	-4-23. A 12-46.2	13241.4 1324.5	1-1494.k 19469.y	21901.2	-175.0 -172.4	-10704.0 -10681.1	-1010.0000 2000.00 -1012.7 675.0 2000.00
 b. TML_6-930 6. TML_6-945 6. TML_6-1045 	53632,3 188352,3 18846,7 18822,3 18882,3	17444.8 17429.0 17399.0 17369.0	8 - 5 82 - 8 1 - 5 62 - 1 1 - 5 62 - 1	<152.5 -152.0	一句音句子,读 一句句写句,静 一句句句之,静	从料理了,都 人的动脉,是 人的化场,是	11324.5 11328.9	10660.0 10627.0	21501.9 23829.1 21856.5	-172.4 -172.8	一直推着粮油。2 一直接着扁根。2	-1012.7 575.9 2242.0 -1101.6 210.0 2142.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	59622,2 50652,3 306562,3 406629,3 406629,3 -00060,2 00064,3	17464,8 17429,0 17499,0 17469,0 17169,0 17149,0 57149,0	1009233 1006231 1006231 1006233 10072233 10072233	<pre>>>(2,2,5) >=152,0 >>>1,6 >>>1,6 =151,3</pre>	-344997 10 -4454 10 -4442 10 -4442 10 -4432 10 -4423 10	四相信号,建 化化四码,是 化化化码,是 化的明确,提 化的研究,等	11324.5 (1220),9 (1220),8 (1220),8 (1220),8	1966年19 1962年1日 1959年11 1959年11	21501.7 23809.1 23808.5 23808.5 23803.9 23802.6	-172.4 -171.8 -171.4 -171.4 -171.0		-1912.7 675.9 5242.0 -2415.6 955.9 2242.0 -1910.7 635.9 2242.0 -1909.9 635.9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	59629,9 166939,3 166946,7 16622,7 16622,7 16622,7 166469,1 166463,3	17444,8 17429,0 17409,0 17169,0 17169,0 17169,0 17169,0 17169,0 10 17169,0	5-042.5 1-052.1 1-052.1 1-052.1 1-052.1 1-052.1 1-052.1	人名布克人格 一直有应之推 人名格莱人格 一直有言人名 一道有言人名	一百年前令,後 一百日下日,後 一百日年夏。後 一百日年夏。後	一致伤害,骨 一致动情,急 一致仁情,最 一致频率,因	21924,5 52228,4 52234,4 52234,6 52249,6 52249,6 53249,5	200604-0 200627-0 200727-0 200728-0 200728-0 200728-0 200728-0	21503.7 23829.1 23829.5 23836.0 23836.9	-172.4 -172.8 -171.4	-10483.2 -10469.5 -10469.2	-1(4)2.7 675.6 2242.0 -2413.6 4/55.6 2242.0 -1413.7 455.6 2242.0 -1444.7 455.9 2242.0 -1444.8 635.9 2142.0 -1444.8 635.9 2142.0
$ \begin{array}{c} b_{1} & -7.81, \ b_{1} - 9.79 \\ b_{1} & -7.81, \ b_{2} - 9.49 \\ b_{1} & -7.81, \ b_{2} - 1.029 \\ b_{1} & -7.81, \ b_{2} - 1.029 \\ b_{1} & -7.10, \ b_{1} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{1} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{2} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} & -7.$	51632, 2 166332, 3 16646, 7 16622, 7 16622, 7 16622, 7 16622, 7 16643, 7 16943, 7 19943, 7 19943, 7	17469.8 17429.0 17399.0 17399.0 17169.0 17199.0 17199.0 17299.0 17299.0 12299.0	<pre>>++>+22.3 1+>542.3 1+>542.3 1+>512.3 1+>512.3 1+>512.3 1+>1202.3 1+>202.3</pre>	 142.4 1402.40 1402.46 1402.5 1402.5 1400.40 1400.7 	 一個有所會、國 一個有所會、國 一個有容易(),國 	四部分子、管 公司四部一定 公司四部一定 公司公司 正定 公司公司 正定 公司公司 正定 公司公司 正定 公司公司 正定 公司公司 正定	\$1324.5 (\$2320.0 \$22290.6 \$22299.6 \$22299.6 \$22299.6 \$22299.6 \$22209.0 \$22209.0	2.0664.0 2.0627.0 2.0578.0 2.0578.0 2.0578.0 2.0547.0 2.0547.0 2.0525.0	21903.0 219039.2 219039.6 219030.6 219032.6 219032.6 219032.0 219032.0 21904.0 21904.0	-172.4 -172.8 -172.8 -172.4 -173.7 -170.7 -170.5 -170.3	-10469.5 -10469.5 -10449.5 -10449.0 -10459.0 -1049.0 -104.2.5 -10425.4	-1412.7 675.9 2242.0 -1412.6 855.9 2242.0 -1410.7 635.4 2242.0 -1410.7 635.9 2242.0 -14049.9 635.9 2242.0 -14099.5 635.9 2242.0 -14099.9 845.9 2242.0
$ \begin{array}{c} b_{1} & -7.81, \ b_{1} - 9.79 \\ b_{1} & -7.81, \ b_{2} - 9.49 \\ b_{1} & -7.81, \ b_{2} - 1.029 \\ b_{1} & -7.81, \ b_{2} - 1.029 \\ b_{1} & -7.10, \ b_{1} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{1} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.10, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{2} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.10, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.10, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} \\ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{1} \\ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} & -7.20, \ b_{2} & -7.20, \ b_{1} & -7.20, \ b_{2} & -7.$	(1)(1)(2), (2) (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(17449.0 17429.0 1749.0 1749.0 1749.0 1719.0 1719.0 1729.0 1729.0 1729.0 1729.0 1729.0 1729.0 1729.0 1	3-1482.3 1-1562.1 101542.3 101542.3 101542.3 101542.3 101542.3 100542.3 100542.3 100542.3 100542.3 100542.3 101543.6	 (1)(2)(3) (1)(2)(2)(4) (1)(2)(2)(4)(4) (2)(2)(2)(4)(4) (2)(2)(2)(4)(4)(4) (2)(2)(2)(4)(4)(4)(4) (2)(2)(2)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)	 - (-) = (-)		21324.5 2234.9 22399.8 23299.8 23299.6 23299.6 23299.6 33250.6 23297.3 3628.2 3628.2	5.0666.0 5.0622.0 3.0523.0 3.0549.0 3.0549.0 3.0549.0 3.0549.0 5.0523.0 5.0523.0 4.00023.0 3.0523.0 4.00023.0 4.00023.0	21903.3 239090.1 239090.5 239092.6 239022.8 239025.3 23905.0 24900.0 24900.0 24900.9 24900.9 24900.9	-102.4 -112.8 -171.8 -171.0 -171.0 -170.7 -170.5 -170.8 -149.4 -149.4	-10683.5 -10669.5 -10669.5 -13669.6 -13865.6 -106625.4 -106625.4 -10665.2	-1812.7 675.9 (2142.0) -1812.7 675.9 (2142.0) -1810.7 675.4 (2142.0) -1904.9 635.9 (2142.0) -1904.9 635.9 (2142.0) -1904.9 635.9 (2142.0) -1904.9 635.9 (2142.0) -1904.9 635.9 (2142.0) -1904.9 636.9 (2142.0)
$ \begin{array}{c} b_{1} & \mbox{TML} & b_{1} \rightarrow 743 \\ b_{1} & \mbox{TML} & b_{1} \rightarrow 945 \\ b_{1} & \mbox{TML} & b_{1} \rightarrow 1945 \\ b_{1} & \mbox{TML} & b_{1} \rightarrow 1345 \\ b_{1} & \mbox{TML} & \mb$	59422, 2 53439, 7 14446, 7 144623, 7 144623, 7 144623, 7 14463, 7 14463, 7 14463, 7 14475, 7	17469.8 17429.0 17429.0 171499.0 171499.0 171490.0 171490.0 172490.0 172490.0 172490.0 172490.0	<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	 人主人道、人 一月九戸、谷 一月九戸、谷 一月九日、谷 一月九日、古 一月九日、古 一月九日、古 一月九日、丁 一月九日、丁 一月九日、丁 一月九日、丁 一月九日、丁 一月九日、丁 一月九日、丁 一月九日、丁 一月九日、丁 	 一些有有余、题 一些有有余、题 一些有有余、题 一些有有余、题 一些有音乐,题 一些有音乐,题 一些有音乐,题 一些有音乐,题 一些有音乐,题 一些有句书,题 		\$1324.0 \$23294.0 \$22294.6 \$22295.6 \$22295.0 \$22295.0 \$2227.0 \$2227.0	2.566.08.09 2.66.23.08 2.65.23.08 2.65.23.08 2.65.26.08 2.65.26.08 2.65.26.08 2.65.26.08 2.65.26.08 2.65.26.08 2.65.26.08	21908.0 21909.0 21909.0 219056.5 219056.6 219056.0 219056.0 219056.0 219050.0 219060.0 219000.0 219000.0	-1920, 4 -1972, 8 -1972, 8 -1973, 9 -1973, 9 -1970, 7 -1970, 9 -1490, 8	<pre>~106481.5 ~10669.5 ~10669.5 ~54445.0 ~10642.5 ~10642.5 ~10642.5 ~10642.5 ~10541.5</pre>	-1412,7 635,9 2342,0 -1413,6 455,6 2342,0 -1413,7 635,4 2342,0 -1414,7 635,9 2342,0 -1449,5 635,9 2342,0 -1400,9 635,9 2342,0 -1400,9 635,9 2342,0 -1400,9 635,9 2342,0



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	1247 1440	÷-1×	1.000.0	19414.2	121112	-2529.1		11043.4	22419.2	2.099.1	-2.19.6	-16169.D	1984,2 45,1 2565.4
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	1958 _ 2010 A 1967 _ 24 10	11.002.0	19495.4	24451.4	-112.4	49233.1	- 4 4 4 4	12.304	22495.4	2. 化化化化		-1014-99	一、小门的小厅, 一次有人的 一次有人的人的 人名英德马尔特 "没有不少的",有人有人的
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	2243 7 - 23		29.02.21	21249.5	2.43.91.8	<1000 2 × 1 2 <1000 4 ft 1 d	- 101 L	10000.4		水市地工艺业主 11 完美以下上楼	-2010 (A -2010 (B		-1029.5 144.4 147.19 -1041.1 119.5 149.4
	1965 <u>-</u> 1 - 1 - 4	10218.2	201200.2	21844-34	-226.0 -236.5	人自然理论的工作 人名法法内森 (5)	一种建筑 化物	11746.6 11763.6	24491.8 24452.8			+11141.1	+1041.1 (10).1 (1454).4 +145.4 (10).8 (10).4
3	ang teres	1.8114、6 1.11146、2	2128911					111111111	24621.0	1465.2			
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	na∫i+12	14169.5	2 S (b - 4) , 10		-242 v 4	-30,98.1	~~49.1			2.0652.5	10.02.7	$\sim 1.1 \simeq \sim 0.1$ s	
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7	883 [2+20	(0 (AN , 1	20125.4	23223.7	-23.5 J	 1) S & N = 1 	$a_i \ll + \lambda_{i-1}^2 + k$	10.101.0	22763.8	, kap , 5	4742.9	-1(1A5.)	-1056 F 154, 9 2497, 0
2	17:33 7-23	1.2083-1.7	1.9(新闻)称	20411.7	人名德格兰 答	- 14 KB . C	- 2 31年1月	11.492.13	2.2 C (9. A	2 (633.3	-23° - 6	-11146.5 -11005.1	人名法布尔尔格 计通过存在 法许证证书
2	1985_3-52 1987_3-22	-9.93 Q	1949217	20603.9	~742.d	1111 A.M.	- 42. A. 12	\$5,000.7	21424.5	2 (242).4	-2221.3	<15025.1	1086 6 156 2 2249 B
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	361 74 60	4 + 47 - 6	16362.5	141347*	-174.2	-4614.4	-+ Ca. 1	101111.0	10.001.6	10-41.2	-176.8	+ + 1 + 8 2	- F.G. 0 - 11K. 6 - 2264. 6
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	mg 2-178	$a \approx h_{1} q_{1} \cdot q_{2}$	16,000,9	11.07.7	~189.1	-4417.6	1415.18	10.011.7	14.314.9	10442.4	<1 nd)	+ 42 + 4 - 5	1466 2 MAR 5 2113 3
	THE -207	- F.4k. J	26306.8	19521.0	-146.9	-9418.2	-11.0.4	1.154.3	14290.7	14:44.7	-188.1	-0912.5	4961.2 Kn9.4 2124.1
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	MT 7-734 MT 7-265 MT 7-265	N#26.9	11.1.34.3	12243.5	16.1.3	AR 476 3	- 4:05:04	1128.1	33972.3	1.047.9	-1×2.0	-9467.4	- 04. 5 - 59.6 - 2070.3
	and The last	1413.9	1. 403 6	17150.8	-1-6-4		- H - Y - H	entry, 3	5,240.00 (3)	20163-8	-118.9		- 化合称 注 计行任 等 计错误系统
	161 25 622	5002.5	1-202.5	17264.1	12.2		-1.27.46	1-47.4	\$7244.9	21/10/41.4	-176.0	424.5	-642.0 Start 2016.1
	199 7-151	27.90.9	15601.0	227.4	-103.2	1813.4.9	-129.7	1113.2	274-11.4	1.444.3	-275.5	- 1493	- 417 N 194 9 1949 3
	150 1 - ind	4016.9	15589.3	11140.6	150.6	(B.). (5425.7	4.64.2	17514. N	11164.9	-110.2	- 9310.6	
		- 366. W	25694.1	11047.9	-148.1	-42%1.1	- 822.0	1.36.6	17406.B	104.4	-147.4	-4-57.6	计规模关系 化化化合金 经收益
		× 153. 9	15.004.2	19427.2	-145.2		-k:8.0	44.91.4	17293.7	29243.7	-164.1	10004.0	-1924.5 V 9.6 1989.5
	100 000	9343.9	11200-1	1.50.0.4			-814.4	9418.4	12161.0	19144-1	- 162.4	-7312.5	- 1924 1 4 - 214 - 1944 1 4 - 1924 1 4 - 514 - 1944 1 4
	2114 2 2 2 2 2 2 2	5328.9	1106.0	26.933.7	-141.0	-4224.7	-6145.7	100.03.7	1.1164.8	1-103-2	-159.3	-1264.9	一、水香、年、香花炒、香、、香炒养姜、生 人的美菇、食、小白椒、子、、香炒香香、美
	1991 + 4 0 9 8	4755.4	15446.9	Lendi.d	114110	-9230.3		1444.44.45	16957 6	100101-0	<109.1 x164.7	- 1266, 9	-912.0 (19.2 19.2). -912.0 (19.2
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	1941 20000	· · · · · · · · · · · · · · · · · · ·	1.4903.00	16723.5	-1-6.5	化化合成 化合金	- 403.0	1414.5	14141.1	194412.7	-109.20 -101.7	- 2220 . 1	2.004.0 (200.0 (200.1) 2.004.0 (200.0 (2000.1)
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	1211 (~449) (MI 7~206	9662.1 2636.2	14630.8	16552.4	1.12.9 11.15.6	《叶玉》之:19 《明诗传天:19	-144.4 -144.6	9361.5	200000.2	18794.2	-158.2	-9286.2	4901,注:"不有,有二二十万分,则 4492,至:"公开,后二二十万万,则
	222 J + 80 h	·····································	1.11代码111111111111111111111111111111111	16115.5					2011-04.9				See 1. 19 1. 19 1. 19 1. 19 1. 19
3	(11) -612	H124.3	1468328 16539 8		-127.4	$\gamma \in (1, [d_2], d_3]$	- 7×9.1	5650 (). 1665 - 16	14244.1 16246.0	:=500.4 [=61.6.0	-143.9 -143.9	- (0)20.1	-Hall 9 (168) 5 (1757) 6 -Hall 6 (169) 6 (1757) 6
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	14 1911 - 1-172 1911 - 1-192 1917 - 1-192 1917 - 2-8-12 1917 - 2-8-32	电行动变。这 化不同图。符 研究研究,注 化不同时,实	12×04-2010 14566.8 14566.8 14+13.8 14+13.8 14+12.8	\$2:34449 34-45.5 36365.5 34425.5 34325.5 44325.5	~112.7 -111.4 -1114.5 ~114.5 ~144.9	一种短兴静。着 人物静容子,看 一切静容子,看 人物静容子,看 人的静容子子,看	-246.8 -248.0 -741.5	9797.0 9707.0 9704.8 9704.8	16236.8 (6240)1 16241.2 16261.2	是各種發展,當 當的各國種 2 種 是何外總權 2 種 自由介紹權 2 種	+125,9 −124,7 +125,8 +122,5	 (1)((1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	 - 秋水子, (1) - 秋水子, (1)
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	14 THE 1+ Y' 2 THE 1- 172 THE 1- 192 THE 2- 412 (THE 2- 412 (THE 2- 412 THE 2- 412	为行之多。这 有人的情情。这 他们也错。这 他们也好,这 他们也好。这 他们也好。这 他们也是了一句。 他们也是一句, 他们也是一句。 他们也是一句, 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他们也是一句 他也是一句 他们也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是一句 他也是 他也。 他也是一句 他也是一句 他也是一句 他也是一句 他也是 他也是一句 他也是一句 他也。 他也是一句 他也。 他也是一句 他也。 他也是一句 他也。 他也是一句 他也。 他也是一句 他也。 他也。 他也。 他也。 他 他。 他。 他 他。 他 他。 他 他。	11-04-2310 11-5, 4 14-56, 8 14-56, 8 14-51, 4 14-51, 4 14-51, 4 14-51, 4 14-51, 4 14-54, 8 14-54, 8 14-54	22 - 1 44 447 24 - 48 - 5 24 - 48 - 5 24 - 47 - 5 24 - 47 - 5 24 - 17 - 5 24 -	$\begin{array}{c} +112.7\\ +121.4\\ +124.4\\ +146.6\\ +146.9\\ +146.9\\ +146.9\\ +146.9\\ +146.2\\ +146.2\\ +146.2\\ +146.5\\ +146.5\\ +146.5\\ +167.5\\ \end{array}$	- 404406 - 4494216 - 4494216 - 4494216 - 44942636 - 44942646 - 44942646 - 44942646 - 4492956 - 4492956 - 4492956	 · (2) 46.1.8 · (2) 46.1.4 	会了得了。这 每下资金要求。他 每下资金要求。他 每下资金要求,他 每天有公司,是 每天有公司,是 每天有公司,是 每天有人,是 10月有人,是 10月有人,是 10月有人,是	143344,5 1432470,1 1432470,2 1432470,2 1432470,2 143250,0 143250,8 143250,8 143250,8 143250,8 143250,8 143210,9 14210,9	3.4495.4 3.4495.4 3.4495.4 3.4495.4 3.4495.4 3.4495.4 3.4495.4 3.4495.23.4495.2 3.4495.2005.2005.2005.2005.2005.2005.2005.20	<pre>~125.3 -124.7 -325.8 -122.5 -122.5 -122.5 -123.3 -123.3 -123.3 -123.3 -123.4 -123.5</pre>	 V(2)(4), b) V(4)(4), b) 	$\begin{array}{c} +6445, \sigma = (-496, 1) = (-1167, 0) \\ +6441, \sigma = (-746, 4) = (-767, 0) \\ +6417, \sigma = (-767, 0) = (-767, 0) \\ +977, 4 = (-767, 0) \\ +977, 4 = (-767, 0) \\ +977, 4 = (-767, 0) \\ +977, 4 = (-767, 0) \\ +977, 5 = (-764, 0) = (-777, 0) \\ +977, 5 = (-764, 0) = (-777, 0) \\ +977, 5 = (-764, 0) = (-777, 0) \\ +977, 5 = (-764, 0) = (-777, 0) \\ +977, 6 = (-764, 0) = (-777, 0) \\ +977, 6 = (-764, 0) = (-777, 0) \\ +977, 6 = (-764, 0) = (-777, 0) \\ +977, 6 = (-764, 0) = (-777, 0) \\ +977, 6 = (-764, 0) = (-777, 0) \\ +977, 6 = (-767, 0) \\ +977, 6 = (-777, 0) \\$
	14 14 14 1515 1-779 1515 1-792 1517 1-852 1 1-852 1-855 1-	6.545.5 6.445.5 6.445.5 6.446.5 6.446.5 7.446.5 7.445.57.445.5 7.445.5 7.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.57.445.5 7.445.	11-04-2010 11-5,4 14-54,9 14-51,4 14-52,4 14-52,4 14-52,4 14-52,4 14-55,4 1	\$2:544487 [4445]5 [4445]5 [44456]5 [44456]5 [44456]5 [44456]7 [44556]7 [44556]7 [44556]7 [44566]7 [44566]5 [44566]5 [44566]5 [44566]5	-112.7 -112.6 -1124.6 -1144.6 -1186.6 -1389.9 -1385.6 -1387.6 -1677.5 -1677.4 -1677.4 -1677.4 -1677.4 -1677.4	- 40240 . 4 - 40240 . 5 - 40240 . 6 - 40240 . 6 - 40240 . 6 - 40240 . 6 - 40250 . 6 - 40250 . 6	- 244.8 - 244.5 - 744.5 - 744.5 - 244.5 - 244.6 - 244.4 - 244.4 - 244.4 - 744.5 - 744.4 - 744.4	受了许多,这 (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	14(3)4,5 34(244),2 46(244),2 46(244),2 46(254),4 46(254),4 16(255),4 16(255),4 16(255),4 16(255),4 16(255),4 16(256),4 16(256),4 16(256),5	244953.2 294543.4 244543.4 244543.4 244543.4 244543.4 244543.4 244543.4 244653.2 244653.2 244653.2 244653.2	<pre>-125.9 -124.7 -125.9 -125.9 -125.9 -125.9 -125.9 -125.9 -125.1 -221.4 -221.4 -121.4 -121.4 -121.4</pre>	 MARE 1, R. 	-444.7 244.4 1757.0 -440.7 244.4 1757.0 -447.7 247.4 1757.0 -457.7 247.8 1757.0 -457.4 247.6 1757.0 -457.4 247.6 1757.0 -457.4 247.6 1757.0 -457.4 247.5 1757.0 -457.4 247.5 1757.0 -457.4 247.5 1757.0 -457.4 247.5 1757.0 -457.4 247.5 1757.0 -457.4 247.5 1757.0 -457.5 143.0 1757.0 -457.5 143.0 1757.0 -457.5 143.0 1757.0 -457.5 143.0 1757.0
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	14 THI	$\label{eq:constraints} \begin{array}{c} \alpha_{1}(\alpha_{2}), \ j \in \{1, 2, 3, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,$	11-04-2310 11-5-5-8 14-5-6-8 14-5-3-4 14-5-3-4 14-5-3-4 14-5-3-4 14-5-3-8 14-5	22 - 1 4 + 42 2 - 4 + 42 2 - 4 - 45 2 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	$\begin{array}{c} +112.7\\ +114.4\\ +116.6\\ +116.6\\ +108.9\\ +308.9\\ +108.6\\ +108.7\\ +108.6\\ +108.6\\ +108.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +109.6\\ +100.6\\$	- 40640, 8 - 40842, 5 - 40842, 5 - 40842, 5 - 5 - 40845, 5 - 40845, 6 -		(2))))))))))))))))))))))))))))))))))))	14(3)4,5 34(2)41,2 14(2)41,2 14(2)46,1 34(2)46,1 14(2)46,1 14(2)5,4 14(2)5,4 14(2)5,4 14(2)5,4 14(2)5,4 14(2)5,4 14(2)5,4 14(2)5,4 14(2),4 14(14493.4 24534.4 14534.4 14534.4 14534.4 14534.4 14534.4 14534.4 14544.5 14645.4 24693.4 24693.2 24695.2 14642.9 24695.2 24695.2	$\begin{array}{c} +125, 9\\ +124, 7\\ +125, 9\\ +122, 9\\ +122, 9\\ +122, 9\\ +122, 9\\ +122, 9\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 1\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +23, 8\\ +123, 2\\ +123$	 (4)(9)(4), (6) (4)(3)(4), (6) (4)(3)(4), (6) (4)(4)(6), (3) 	$\begin{array}{c} - e 4_{1}, y = - 4 \phi_{1,1} & 1 \ 3 57, 0 \\ + e 4_{1}, y = 4 \phi_{1,2} & 1 \ 3 57, 0 \\ + e 4_{1}, y = 4 \phi_{1,2} & 1 \ 3 57, 0 \\ + e 4_{1}, y = 4 \phi_{1,2} & 1 \ 3 57, 0 \\ + e 4_{1}, z = 4 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e 4_{1}, z = 4 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e 4_{1}, z = 4 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e 4_{1}, z = 4 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e 4_{2}, z = 4 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e 4_{2}, z = 4 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e 4 \phi_{1,2} & 4 \phi_{2,2} & 2 \phi_{1,2} & 2 \\ + e \phi_{1,2} & 4 \phi_{2,2} & 2 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e \phi_{1,2} & 4 \phi_{2,2} & 2 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e \phi_{1,2} & 4 \phi_{2,2} & 2 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e \phi_{2,4} & 4 \phi_{2,2} & 2 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ + e \phi_{2,4} & 4 \phi_{2,2} & 2 \phi_{1,2} & 2 \phi_{1,2} & 2 \\ \end{array}$
	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	电标电子 正 化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化	11-4-2334 11-5-5-6 14-5-5-6 14-15-6	22:144.42 144.45.5 144.455.5 144.555.5 1	$\begin{array}{c} (122,7)\\ -(111,4)\\ (110,6)\\ (110$	- 40640, 4 - 40842, 5 - 40842, 5 - 40842, 5 - 40842, 5 - 40842, 6 - 4084	- (246, 9 - 244, 6 - 744, 5 - 794, 8 - 294, 8 - 294, 8 - 294, 8 - 294, 8 - 294, 8 - 294, 9 -	(2)(1): (1): (1): (1): (1): (1): (1): (1):	14(2)4, 5 (4)(4)(1) 14(2)(4)(1)(2) (4)(2)(6)(4)(1)(2) (4)(2)(6)(4)(1)(2)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	24493.1 244934.4 244444.4 144444.4 144444.4 144443.2 144434.4 144434.1 144432.6 24443.1 144432.6 244432.6 244436.2 244436.2 244436.2 244436.2 244436.2 244436.2 244436.2 244436.2	<pre>-125.9 -124.7 -124.7 -123.8 -123.9 -123.9 -123.1 -123.9 -123.1 -123</pre>	· 如何的子说,他 · 一门了一切,他 · 一门了一切,他 · 一切是是特别,他 · 一切是是特别,他 · 一切是有的,你 · 一切是有的,你 · 一切是有的,你 · 一切是有吗,可 · 一切是有吗,可 · 一切是有吗,可 · 一切是有吗,可 · 一切是有吗,可 · 可得到吗? · 可得到了吗?	$\begin{array}{c} -441, 2 & (-49), 1 & (-157), 0 \\ -441, 2 & (-49), 1 & (-157), 0 \\ -441, 2 & (-157), 0 & (-157), 0 \\ -441, 2 & (-157), 0 & (-157), 0 \\ -451, 3 & (-164), 4 & (-157), 0 \\ -451, 4 & (-46), 4 & (-157), 0 \\ -451, 4 & (-46), 4 & (-157), 0 \\ -452, 6 & (-46), 4 & (-157), 0 \\ -452, 6 & (-46), 4 & (-157), 0 \\ -452, 6 & (-46), 4 & (-157), 0 \\ -452, 6 & (-46), 4 & (-157), 0 \\ -452, 6 & (-46), 2 & (-157), 0 \\ -452, 6 & (-156), 2 & (-157), 0 \\ -452, 6 & (-156), 2 & (-157), 0 \\ -452, 6 & (-156), 2 & (-157), 0 \\ -452, 6 & (-156), 2 & (-157), 0 \\ -452, 6 & (-156), 2 & (-157), 0 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156), 2 \\ -452, 6 & (-156)$
	$ \begin{array}{c} 1 \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\$	$\label{eq:states} \begin{split} & \eta_{1}(w_{2})_{1,2} \\ & w_{1}^{2}(w_{1}^{2})_{1,2} \\ & w_{1}^{2}(w_{2}^{2})_{1,2} \\ & w_{1}^{2}(w_{2}^{2})_{1,2} \\ & w_{1}^{2}(w_{2}^{2})_{1,2} \\ & w_{1}^{2}(w_{1}^{2})_{1,2} \\ & w_{1}^{2}(w_{1}$	100-2010 105, m 1.4.166, m 1.4.166	(2), 1 ve. 47 (4), 48, 18 (4), 60, 15 (4), 60, 15 (4), 67, 17 (4), 67, 17 (4), 67, 17 (4), 67, 18 (4), 67, 18 (4), 67, 19 (4), 67, 19 (4), 67, 19 (4), 67, 19 (4), 67, 19 (4),	-112.) -111.4 -110.5 -10.5 -10.5 -10.5 -10.5 -10.5	- 400400 - 400400 - 400401 - 400401 - 400401 - 400400 -	- (246, 6) - (246, 6) - (244, 5) - (244, 5) - (244, 5) - (246, 6) - (246, 6)	(2) (2) (2) (4) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	14(2)4, 5 14(2)4(3), 1 14(2)4(3), 2 14(2)4(3), 2 14(2)3(4, 2) 14(2)3(4, 2) 14(2)3(4, 3) 14(2)3(4, 3) 14(2)3(4, 3) 14(2)3(4, 3) 14(2)4(4, 3) 14(2)	244933.2 245343.4 245343.4 245343.4 245343.4 245343.4 245343.4 244543.4 244543.4 244543.4 244543.4 244543.4 244553.2 244553.2 244553.2 244553.2 244553.2	-125.9 -124.9 -123.8 -123.8 -123.8 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9 -123.9	- 409年1, - 409年4月, - 405年4月, - 40544月, - 40544月, - 40544月, - 40544月, - 40544月, - 405441, - 405441,	$\begin{array}{c} -441, 9 & (-49), 1 & (-157), 0 \\ -441, 7 & (-157), 0 & (-157), 0 \\ -451, 7 & (-157), 0 & (-157), 0 \\ -451, 1 & (-157), 0 & (-157), 0 \\ -451, 1 & (-157), 0 & (-157), 0 \\ -451, 1 & (-157), 0 \\ -451, 1 & (-157), 0 \\ -452, 1 & (-157), 0 \\ $
	$ \begin{array}{c} \mathbf{x} \\ \mathbf{y} \\ \mathbf$	4. 电控制点 点 医二乙酸 化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化	100-2010 1	(2), 1 ve 47 (4) ve 47 (4) (5) (5) (4) (5) (5) (4) (7) (5) (4) (7) (7) (4) (7)	$\begin{array}{c} -(1)2, \)\\ -(1)1,4\\ -(1)0,6\\ +($	$\label{eq:constraints} \begin{array}{c} -u_{0}(q_{0}), \ q \\ -u_{0}(q_{1}), \ q \\ $	$= \frac{1}{2} \{ A \hat{a}_{1} , b \\ = \frac{1}{2} \{ A \hat{a}_{1} , b \\ = \frac{1}{2} \{ y \}_{1} , b \\ = \frac{1}{2} $	(2) (3)、(3) (4) (3) (4)、(4)、(4)、(4)、(4)、(4)、(4) (4) (4)、(4)、(4)、(4),(4),(4),(4),(4),(4),(4),(4),(4),(4),	14(2)4,5 14(2)47),1 14(2)47),2 14(2)47),2 14(2)57,4 14(2)57,5		$\begin{array}{c} -125, 9\\ -124, 9\\ -125, 9\\ -125, 9\\ -125, 9\\ -122, 9\\ -122, 9\\ -123, 9\\ -123, 9\\ -123, 9\\ -123, 9\\ -123, 9\\ -123, 9\\ -123, 9\\ -123, 9\\ -122,$	 (4)(9)(4), (6) (4)(3)(4), (6) (4)(3)(3), (6) 	$\begin{array}{c} -441, 2 & (-49), 1 & (-157), 0 \\ -441, 2 & (-49), 1 & (-157), 0 \\ -441, 2 & (-157), 0 & (-157), 0 \\ -451, 2 & (-157), 0 & (-157), 0 \\ -451, 2 & (-157), 0 & (-157), 0 \\ -451, 2 & (-157), 0 & (-157), 0 \\ -452, 2 & (-157), 0 & (-157), 0 \\ -$
	$ \begin{array}{c} 1 1 \\ 1$	 N(N) 5. N(N) (1); (1); (2); (2); (2); (2); (2); (2); (2); (2	1.2-00-2010 1.1-05-8 1.4-166-8 1.4-162-6	(2), 1 ve. 47 (2), -1 ve. 47 (2), -1 ve. 5, -1 (2), -1, -1, -1 (2), -1, -1, -1 (2), -1, -1, -1 (2), -1, -1 (2), -1, -1 (2), -1, -1 (2), -1, -1 (2), -1	$\begin{array}{c} -112.7\\ -1114.4\\ -1104.6\\ +1014.$	$\label{eq:constraints} \begin{split} &-u(g)(q)_{1,2},\ q \\ &-u(g)(q)_{1,2},\ q \\ &-u(g)(q)_{1,2},\ q \\ &-u(g)(q)_{2,2},\ q \\ &-u(g)(q)(q)_{2,2},\ q \\ &-u(g)(q)(q)_{2,2},\ q \\ &-u(g)(q)(q)_{2,2},\ q \\ &-u(g)(q)(q)_{2,2},\ q \\ &-u(g)(q)(q)(q)_{2,2},\ q \\ &-u(g)(q)(q)(q)(q)(q)(q)(q)(q)(q)(q)(q)(q)(q)$	$-\frac{2}{3} \frac{4}{64} \frac{1}{16} \frac{1}{16} - \frac{1}{16} \frac{1}{16}$	2033.0 (123.0)	4.4214.5 4.4244.5 4.4244.5 4.4244.5 4.4245.6 4.4256.4 1.4255.4 1.4255.4 1.4255.4 1.4255.4 1.4255.4 1.4256	14493.4 14434.4 14434.4 14434.4 14434.4 14434.4 14434.4 14434.4 14434.4 14444.1 14444.1 14445.6 14445.6 14445.6 14455.6 14555.6 145	-125, 6 -124, 7 -124, 7 -123, 8 -122, 6 -122, 6 -122, 6 -121, 7 -121, 1 -121, 1 -122, 2 -122, 8 -122, 8 -123,	 (40)(9)(5), b) (40)(9)(40), b) (40)(20)(30), b) (40)(20)(30), b) (40)(20)(20), b) (40)(20), b) 	$\begin{array}{c} +441, 2 & +491, 1 & +1571, 0 \\ +441, 2 & +484, 4 & +1571, 0 \\ +441, 2 & +484, 4 & +1571, 0 \\ +441, 2 & +484, 4 & +1571, 0 \\ +451, 4 & +464, 4 & +1571, 0 \\ +451, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 4 & +1571, 0 \\ +454, 4 & +464, 2 & +1571, 0 \\ +454, 4 & +464, 2 & +1571, 0 \\ +454, 4 & +464, 2 & +1571, 0 \\ +454, 4 & +464, 2 & +1571, 0 \\ +454, 4 & +464, 2 & +1571, 0 \\ +454, 4 & +464, 2 & +1571, 0 \\ +454, 4 & +464, 5 & +1571, 0 \\ +454, 4 & +156, 5 & +156, 5 \\ +454, 4 & +15$
	$ \begin{array}{c} \mathbf{x} \\ \mathbf{y} \\ \mathbf$	电化的变法 医 化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化化 化化化化化 医子宫	12-00-2010 21-00-2010 14-00-	(2.1) ve 47 2.4-45, 5 1.45(45), 5 1.45(45), 5 1.44(45), 5 1.44(45	$\begin{array}{c} -112,i\\ -11114,\\ +11114,\\ +111116,\\ +1111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,\\ +111116,$ +111116, +1111116,	$\label{eq:constraints} \begin{array}{c} -u_{0}(q_{0}), q_{0}, q_{0},$		有20年3日, 1995年1月 1995年年 1995年年 1995年年 1995年年 1995年年 1995年年 1995年年 1995 1995	16234.5 16245.2 162645.2 162645.2 162645.2 16275.4 16275.4 16275.4 16275.4 16275.4 16275.4 16275.4 16215.4 16214.5 16274.5 16274.5 16245.5 16245.5 16255.5 165	14493.1 345.041.4 345.041.4 345.041.4 345.041.4 345.041.4 345.041.4 345.041.4 346.041.1 346.041.5 346.051.2347.0 346.051.2 346.051.2347.0 346.051.2 346.051.2347.0 346.051.2 346.051.2347.0 347.051.2 347.051.2347.0 347.051.2 347.051.2347.0 347.051.2 347.051.2347.0 347.051.2347.0 347.051.2 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.2347.0 347.051.001.201.001.001.001.001.001.001.001.00	$\begin{array}{c} -125, \ 6\\ -1244, \ 7\\ -1244, \ 7\\ -1223, \ 9\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1223, \ 7\\ -1233, \ 9\\ -1233, \ 9\end{array}$	- 400年後 - 400年後 - 401月11日 - 401月111日 - 401月111日 - 401月111日 - 401月111日 - 401月111日 - 401月111日 - 401月111日 - 401月1111日 - 401月111日 - 401月1111日 - 401月1111日 - 401月11111111111111111111111111111111111	$\begin{array}{c} +441, 9 & (-491, 1) & (-191, 1) \\ +441, 9 & (-191, 1) & (-191, 1) & (-191, 1) \\ +411, 1 & (-191, 1) & (-191, 1) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 1) \\ +411, 4 & (-191, 4) & (-191, 4) \\ +411, 4 & (-191, 4) \\ +411, 4 & (-191, 4) \\ +411, 4 & (-191, 4) \\ +411, 4 & (-191, 4) \\ +411, 4 & (-191, 4) \\ +411, 4 & (-191, 4) \\ +411, 4 & (-1$
	$ \begin{array}{c} \mathbf{x} \\ \mathbf{y} \\ \mathbf$	$\label{eq:constraints} \begin{array}{c} u_{1}^{-1}u_{2}^$	100-2010 100-2010 1.4.45 1.4.4	(2.1) ve 47 2.4-45, 5 1.45(45), 5 1.45(45), 5 1.44(45), 5 1.44(45	$\begin{array}{c} -112.7\\ -1111.4\\ -1101.6\\ +1010.6\\ +1010.6\\ +10$	$\label{eq:constraints} \begin{array}{c} -4 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4 $	·····································	2002,0 	14534.5 (5)2431.1 (5)241.2 (5)241.2 (5)241.2 (5)241.2 (5)241.2 (5)251.4 (5)	24495.1 24404.4 24404.4 24404.4 24404.4 24404.4 24404.2 24405.	-125, 4 -1244, 7 -1244, 7 -125, 8 -122, 6 -122, 6 -122, 6 -123, 4 -123, 4 -122, 5 -122, 5 -12,	- 1999年1月 - 1997年1月 - 1997 -	$\begin{array}{c} +441, 2 & (-49), 1 & (-157), 0 \\ +461, 2 & (-49), 2 & (-157), 0 \\ +461, 2 & (-157), 0 & (-157), 0 \\ +461, 2 & (-157), 0 & (-157), 0 \\ +461, 3 & (-164), 4 & (-157), 0 \\ +461, 4 & (-461, 4 & (-157), 0 \\ +462, 4 & (-36), 4 & (-157), 0 \\ +462, 4 & (-36), 4 & (-157), 0 \\ +462, 4 & (-36), 4 & (-157), 0 \\ +462, 4 & (-44), 4 & (-157), 0 \\ +462, 4 & (-44), 4 & (-157), 0 \\ +464, 4 & (-44), 4 & (-156), 4 \\ +46, 4 & (-44), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 $
	14 14 17 17 17 17 17 17 17 17 17 17	$\label{eq:constraints} \left\{ \begin{array}{l} u_{1} u_{2} (u_{1}, u_{2}, u_{3}, u_{3}$	100-2010 1	(2.1) ve 47 (2.4) ve 47 (2.4) ve 47 (2.4) ve 57 (2.4)	$\begin{array}{c} -112, \\ , \\ -1111, \\ + \\ -1120, \\ + \\ + \\ -1100, \\ + \\ -1100, \\ + \\ - - \\ - - \\ - \\ - - \\ - $	$\label{eq:constraints} \begin{split} &-u_{12}(q_{12},q_{13},q$	《外》 《外》 《外》 《外》 《外》 《外》 《外》 《外》 《外》 《外》	会的3.2.3 一个公司是一次, 公司3.2.3 一个公司通道,是一个领导是一个领导是一个领导是一个领导是一个领导是一个领导是一个领导。 网络一个公司通道,是一个领导是一个领导是一个领导是一个领导是一个领导是一个领导。 网络一个公司通道,是一个领导是一个领导是一个领导是一个公司。 一个公司通道,是一个公司是一个公司一个公司一个公司一个公司一个公司一个公司。 一个公司一个公司一个公司一个公司一个公司一个公司一个公司一个公司一个公司一个公司	1423 (4.5 14241.2 14241.2 14241.2 14241.2 14241.4 14251.4 14253.4 14253.4 14253.4 14254.3 142554.3 14254.3 14454.314455555555555555555555555555555555555	14493.1 14/044.4 14/044.4 14/044.4 15/046.4 15/046.4 15/046.4 15/046.4 14/046.4 14/046.4 14/046.4 14/046.4 14/046.4 14/046.4 14/046.4 14/046.4 14/046.5 14/046.	-125, 4 -1244, 7 -1244, 7 -125, 8 -122, 6 -122, 6 -122, 6 -123, 4 -123, 4 -122, 5 -122, 5 -12,	 ・約9万法, ・約9万法, ・10万元, ・10万元, ・10万元, ・10万元, ・10万元,	$\begin{array}{c} +441, 2 & (-49), 1 & (-157), 0 \\ +461, 2 & (-49), 2 & (-157), 0 \\ +461, 2 & (-157), 0 & (-157), 0 \\ +461, 2 & (-157), 0 & (-157), 0 \\ +461, 3 & (-164), 4 & (-157), 0 \\ +461, 4 & (-461, 4 & (-157), 0 \\ +462, 4 & (-36), 4 & (-157), 0 \\ +462, 4 & (-36), 4 & (-157), 0 \\ +462, 4 & (-36), 4 & (-157), 0 \\ +462, 4 & (-44), 4 & (-157), 0 \\ +462, 4 & (-44), 4 & (-157), 0 \\ +464, 4 & (-44), 4 & (-156), 4 \\ +46, 4 & (-44), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-46), 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 & (-156), 4 \\ +46, 4 $
	14 14 17 17 17 17 17 17 17 17 17 17	$\label{eq:constraints} \begin{array}{c} u_{1} u_{2} u_{3} \\ u_{1} u_{2} u_{3} \\ u_{1} u_{2} u_{3} \\ u_{2} u_{3} u_{4} \\ u_{1} u_{2} u_{3} \\ u_{2} u_{3} \\ u_{1} u_{2} u_{3} \\ u_{2} u_{3} \\ u_{1} u_{2} \\ u_{2} u_{3} \\ u_{3} \\ u_{1} u_{2} \\ u_{3} \\ u_$	1	(2.1) versel (2.4) versel (2	$\begin{array}{c} -111, \ , \ , \\ -111, \ , \\ +111, \ , \\ +111, \ , \\ +110, $	$\label{eq:constraints} \begin{split} & + 0 0 0 0 - 1 \\ & + 0 0 0 0 - 1 \\ & - 0 0 0 0 0 - 1 \\ & - 0 0 0 0 0 - 1 \\ & - 0 0 0 0 0 0 - 0 \\ & - 0 0 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 \\ & - 0 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 0 \\ & - 0 0 \\ & - 0 0 0 \\ & - 0 \\ & - 0 0 \\ & - 0 0 \\ & - 0 \\ & - 0 0 \\ & - 0 \\ & - 0 0 \\ & - 0 \\ & - 0 0 \\ & - 0 \\ &$		6202.0 -7702.0 -7703.0 -7703.4	14234.5 (5/241.2 (4/241.2 (4/241.2) (4/241.2) (4/235.3 (4/235.3) (4/235.3) (4/235.3) (4/235.4) (4/235.4) (4/235.4) (4/236.4) (14495.1 14(4)4.4 14(4)4.4 14(4)4.4 14(4)4.4 14(4)4.4 14(4)4.4 14(4)5.1 14(4)5.1 14(4)5.1 14(4)5.1 14(4)5.2 14(4)5.	$\begin{array}{c} -125, s\\ -1244, 7\\ -1243, 0\\ -125, 0\\ -125, 0\\ -125, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1223, 0\\ -1222, 0\\ -1222, 0\\ -1222, 0\\ -1222, 0\\ -1222, 0\\ -1223, 0\\ -1223, 0\\ -1224, 0\\ -1234, 0\\ -1243, 0\\ -12$		$\begin{array}{c} - 444, 3 & (-49), 1 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 3 & (-157), 0 \\ - 444, 4 & (-154), 0 \\ - 444, 4 & (-154), 0 \\ - 44$
	$\begin{array}{c} \mathbf{x} & \mathbf{x} \\ \mathbf{x} & $	$\label{eq:constraints} \begin{array}{l} a_1(a_2), \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	1.2.00-2.23.0 1.4.94, 1.4.94	(2) (1) en 47 (2) - 4 4 - 5 (2) - 4 4 4 - 5 (2) - 5 4 - 6 - 5 (2) - 6 - 7 - 5 (2) - 7 - 7 - 5 (2) - 7 - 7 - 7 (2) -	$\begin{array}{c} -112, \\ -114, \\ -114, \\ +114, \\ +116, \\ +1,16$	- 4444431、6 - 4444431,6 - 44444431,6 - 44444431,6 - 4444444444451,6 - 4444444464446464646464646464646464646666		会的变法。 一个公司是一句 一个 一个 一个 一个 一个 一个 一个 一个 一个 一个 一 一 一 一	14634.5 (4)241.2 (4)2	14495.1 14404.4 14404.4 14404.4 14404.4 14404.4 14404.4 14404.4 14404.4 14404.4 14404.5 14404.5 14405.2 144	$\begin{array}{c} -125, s\\ -1248, r\\ -1248, r\\ -1228, r\\ -1228, r\\ -1220, r\\ -1222, r\\ $	$\begin{split} & - \alpha \partial \phi \phi_{1} , \\ & - \alpha - (-\alpha) \omega_{1} , \\ & - \alpha + (-\alpha) \partial \phi_{1} , \\ & - \alpha + (-\alpha) \partial \phi_{1} , \\ & - \alpha - (-\alpha) \partial \phi_{1} , \\ & - \alpha - (-\alpha) \partial \phi_{2} , \\ & - \alpha $	$\begin{array}{c} +44.1 \\$
	$\begin{array}{c} \mathbf{x} & \mathbf{x} \\ \mathbf{x} & $	$\label{eq:constraints} \begin{array}{c} u_{1}^{(1)} u_{2}^{(1)} , \ j \in \{1, \dots, n\}, \\ u_{1}^{(1)} u_{1}^{(1)} , \ j \in \{1, \dots, n\}, \\ u_{1}^{(1)} u_{1}^{(1)} , \ u_{2}^{(1)} , \ u_{2}^{(1)$	1.2-04-2020 2.4-04-2010 1.4-0	(2) (1) with 24 - 4 - 4 - 5 24 - 4 - 4 - 5 24 - 4 - 5 24 - 4 - 5 24 - 2 - 5 24 -	$\begin{array}{c} -112.,\\ -112.,\\ +112.,\\ +112.,\\ +110.,\\ +11$	-46447, -6, -6, -10, -10, -10, -10, -10, -10, -10, -10	《外外》 《外外》 《外外》 《外外》 《外》 《外》 《外》 《外》 《外》	(20)2.0 (1)	14234.5 (Ap241.2 142241.2 142241.2 142241.2 142241.2 142235.3 142235.3 14435.3 14455.314455.3 14455.3 14455.3 14455.314455.3 14455.3 14455.31455.3 14455.31455.3 14455.31	1-4495.1 1-4404.4 1-4404.4 1-4404.4 1-4404.4 1-4404.4 1-4404.4 1-4404.5 1-4404	$\begin{array}{c} -125, s\\ -1244, 7\\ -1243, 0\\ -125, 0\\ -125, 0\\ -125, 0\\ -1252, 0\\ -1252, 0\\ -1252, 0\\ -1252, 0\\ -1253, 0\\ -1253, 0\\ -1253, 0\\ -1253, 0\\ -1253, 0\\ -1252, 0\\ -1252, 0\\ -1252, 0\\ -1253, 0\\ -12$	$\begin{split} & - \alpha_{0} \phi_{0} \phi_{1}, \phi_{1} \\ & - \alpha_{0} \phi_{1} \phi_{0} \phi_{1}, \phi_{1} \\ & - \alpha_{0} \phi_{1} \phi_{0} \phi_{1}, \phi_{1} \\ & - \alpha_{0} \phi_{0} \phi_{0}, \phi_{1} \\ & - \alpha_{0} \phi_{0} \phi_{1}, \phi_{1} \\ & - \alpha_{0} \phi_{1} \\ & - \alpha_{0} \phi_{1} \phi_{1} \\ & - \alpha_{0} \phi_{1} \phi_{1} \\ & - \alpha_{0} \phi_{1} \\$	$\begin{array}{c} +44.1 \\$
	$\begin{array}{c} \mathbf{x} & \mathbf{x} \\ \mathbf{x} & $	$\label{eq:constraints} \begin{array}{l} \mathbf{u}_{i} \in \{\mathbf{u}_{i}, \mathbf{u}_{i}\}, \mathbf{u}_{i}\}, \mathbf{u}_{i} \in \{\mathbf{u}_{i}, \mathbf{u}, \mathbf{u}_{i}\}, \mathbf{u}_{i} \in \{\mathbf{u}_{i$	1.2.00-2320 2.4.05-5.8 2.4.05-8.05-8. 2.4.05-8.05-8.05-8. 2.4.05-8.05-8.05-8.05-8.05-8.05-8.05-	22.1 4 × 47 14.4 × 48 × 5 14.4 × 5	$\begin{array}{c} -112, \ , \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ , \ \\ -113, \ \ \\ -113, \ \ \\ -113, \ \ \\ -113, \ \ \\ -113, \ \ \\ -113, \ \ \ \\ -113, \ \ \ \ \\ -113, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\begin{array}{c} -40.40 - \dot{\sigma} \\ -40.40 + \dot{\sigma} \\ -40.40 $		6002.0 -7702.0	14634.5 (4)244.2 (4)244.2 (4)244.2 (4)244.2 (4)244.2 (4)244.2 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)244.4 (4)24.4 (4	14495.1 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-4 14/041-5 14/041-	$\begin{array}{c} -125, s\\ -1244, 7\\ -1244, 7\\ -1241, 8\\ -1221, 9\\ -1222, 9\\ $	$\begin{split} & - 009(r_1,h_1) \\ & - v_1(2)0(r_1,h_2) \\ & - v_1(2)0(r_1,h_2) \\ & - v_1(2)0(r_1,h_2) \\ & - v_1(2)(r_1,h_2) \\ & - v_1(r_1,h_2) \\ & - v_1(r_1,h_2) \\ & - v_1(r_1,h_2) \\ & - v$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c} \mathbf{x} & \mathbf{x} \\ \mathbf{x} & $	$\label{eq:2.1} \begin{array}{c} u_{1}^{*} (u_{1}^{*}) u_{2}^{*} (u_{2}^{*}) u_{3}^{*} (u_{3}^{*}) $	$\label{eq:constraints} \begin{split} & (1,-0) - Q(2) & 0 \\ & (-1) - Q(2) & 0 \\ & (-1) - Q(2) & 0 \\ & (-1) - Q(2) - Q(2) & (-1) - Q(2) & 0 \\ & (-1) - Q(2) - Q(2) & (-1) - Q(2) & 0 \\ & (-1) - Q(2) - Q(2) & (-1) - Q(2) & 0 \\ & (-1) - Q(2) - Q(2) & (-1) - Q(2) &$	(2) () vert () () vert () () vert () vert () vert () ()	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	$\label{eq:constraints} \begin{array}{c} -464647, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -5\\ -464627, -6\\ -4647, -6\\ -467, -6\\ -467, -6\\ -467, -6\\ -$		会口的2.0 - つうなこみ、 - つうなど、 - つうなど、 - のなど、 - つなど、 - つなど - つる - つる - つる - つる - つる - つる - つる - つる	14234.5 (A)241.2 (A)241.2 (A)241.2 (A)241.2 (A)2435.2 (A)2435.2 (A)2435.2 (A)2435.2 (A)2435.2 (A)2435.2 (A)244.2 (A)244.2 (A)244.2 (A)244.2 (A)244.2 (A)24.2 (14495.1 14404.4 14404.4 14603.4 14603.4 14603.4 14603.4 14604.4 146	-125,9 -1244,9 -1244,9 -125,0 -125,0 -1222,0 -	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - v_{1} \partial \phi_{1,k} \\ & - v_{1} \partial \phi_{1,k} \partial \phi_{1,k} \\ & - v_{1} \partial \phi_{1,k$	$\begin{array}{c} +441, 2 & (-49), 1 & (-157), 0 \\ +441, 2 & (-49), 1 & (-157), 0 \\ +441, 2 & (-157), 0 & (-157), 0 \\ +451, 3 & (-157), 0 & (-157), 0 \\ +451, 3 & (-157), 0 & (-157), 0 \\ +451, 3 & (-157), 0 \\ +451, 4 & (-157), 0 \\ +$
	$\begin{array}{c} \mathbf{x} & \mathbf{x} \\ \mathbf{x} & $		1	(2) (1) en 47 (2)	$\begin{array}{c} -1121\\ -1121\\ -1122\\ -$	$\label{eq:constraints} \begin{split} &-400402, \dot{a}, \\ &-40040464, \\ &-40040464, \\ &-40040462, \\ &-40040462, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-4004042, \\ &-400404, \\ &-400404, \\ &-400404, \\ &-4004, \\ &-4004, \\ &-40$		今2032.0 - 17327-19- 、17327-19- 、17327-19- 、17327-19- (17327-19- 19- (19327-19- 19- (19327-19- 19- (19327-19- 19- (19327-19- 19- (19327-19- 19- (19327-19-(19327-19- (19327-	14234.5 14244.1 14244.1 14244.1 14244.1 14245.5 14255.1 14255.	$\label{eq:2.1} \begin{array}{l} 1 + 4 + y_{1,1} \\ 1 + (y_{1,1})_{1,1} \\ 1 + $	$\begin{array}{c} -12^{+}, -1\\ -12^{+}, -1$	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - v_{1,k} (\partial \phi_{1,k}) \\ & - v_{1,k} (\partial \phi_{1,k}) \\ & - v_{1,k} (\partial \phi_{1,k}) \\ & - v_{1,k} (\phi_$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c} \mathbf{x} & \mathbf{x} \\ \mathbf{x} & $		$\begin{array}{c} 1, -0, -0, +0, \\ -0, +0, \\ -1, +0, -0, +0, \\ -1, +0, +0, \\ -1, +0, +0, \\ -1, +0, +0, \\ -1, +0, +0, +0, \\ -1, +0, +0, +0, \\ -1, +0, +0, +0, \\ -1, +0, $	(2) (3) (4) (4) (4) (4) (4) (4) (4) (4	$\begin{array}{c} -112., \\ -112., \\ -113., \\ -11$	$\begin{split} -& 440440 -, a \\ -& 440452 +, a \\ -&$	一个人,有一个人,有一个人,有一个人,有一个人。 一个人,有一个人,有一个人,有一个人,有一个人,有一个人,有一个人,有一个人,有	今2032.0 (1)25.0 (1423 (A. S. 14224 (J. 2 14224 (J. 2 1424 (J. 2 144 (J. 2))))))))))))))))))))))))))))))))))))	14453.1 14564.4 14564.4 14575.2 14575.414575.4 14575.414575.4 14575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.4 14575.414575.414575.4 14575.414575.414575.	$\begin{array}{c} -125, s\\ -1244, 7\\ -1244, 7\\ -1244, 7\\ -1221, 0\\ -1222, 0\\ $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - (-1) \partial \phi_{1,k} \\ & - (-1)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c} \mathbf{x} & \\ \mathbf{y} $		1.0-0-0210 1.4.466.8	(2) (1) or 40 ² (2) (4) or 40 ² (2) (4) (4) (5) (2) (4) (4) (5) (5) (2) (4) (4) (5) (5) (4) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	$\begin{array}{c} -112 i\\ -112 i$	$\begin{array}{c} -440400, -6\\ -440400, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40400, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -6\\ -40, -10, -10, -10, -6\\ -40, -10, -10, -10, -10, -10\\ -40, -10$	《·汉···································	今202.0 (1)202.0	14634.5 (4)2441.2 (4)2441.2 (4)2441.2 (4)24535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)2535.0 (4)255.0 (4)	14495.1 14404.4 14404.4 14404.4 146	$\begin{array}{c} -125, g\\ -1244, g\\ -155, g\\ -1244, g\\ -155, g\\ -125, g\\ -12$	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - v_{1,0} \partial \phi_{1,k} \\ & - v_{1,0} \partial \phi_{1,k} \partial \phi_{1$	$\begin{array}{c} +441, 2 & -494, 1 & -1571, 0 \\ +441, 2 & -494, 1 & -1571, 0 \\ +441, 2 & -444, 3 & -1571, 0 \\ +441, 2 & -444, 3 & -1571, 0 \\ +451, 3 & -461, 0 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 3 & -461, 4 & -1571, 0 \\ +451, 4 & -461, 4 & -1571, 0 \\ +451, 4 & -461, 4 & -1571, 0 \\ +451, 4 & -461, 4 & -1571, 0 \\ +452, 4 & -461, 4 & -1571, 0 \\ +452, 4 & -461, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +452, 4 & -453, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1571, 0 \\ +454, 5 & -554, 5 & -1574, 0 \\ +454, 5 & -554, 5 & -1574, 0 \\ +454, 5 & -554, 5 & -1574, 0 \\ +454, 5 & -554, 5 & -1574, 0 \\ +454, 5 & -554, 5 & -1574, 0 \\ +454, 5 & -554, 5 & -1574, 0 \\ +454, 5 & -554, 0 \\ +454, 5 & -554, 0 \\ +454, 5 & -554, 0 \\ +454, 5 & -554, 0 \\ +454, 5 & -554, 0 \\ +454, 5 & -554, 0$
	$\begin{array}{c} \mathbf{x} & \\ \mathbf{y} $		10-0-23:0 - 40-5.8 - 40-5.8 - 40.5.8 - 40.5.8 0.5	(2), 1) or 427 (2), 4) or 427 (2), 4) or 45, 5), (2), 4), 5), 5), (2), 4), 5), 5), (2), 4), 5), 7), (2), 4), 5), 7), (2), 4), 5), 7), (2), 4), 5), 7), (3), 4), 5), 7), (4), 4), 7), 5), (4), 4), 7), 7), (4), 4), 7), 7), (4), 4), 7), (4), 7	$\begin{array}{c} -112, 1\\ -113, 4\\ +113,$	$\label{eq:constraints} \begin{split} &-40,40,40,-,a,\\ &-40,40,21,5,6,\\ &-40,40,21,5,6,\\ &-40,40,21,5,6,\\ &-40,40,21,5,6,\\ &-40,40,40,5,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,40,4,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,6,6,\\ &-40,40,4,6,6,6,6,\\ &-40,40,4,6,6,6,6,6,6,\\ &-40,4,6,6,6,6,6,6$		今つのう、0 ・つうシアンジート、 ・つうシアンジート、 ・つうシアンジート、 ・つくした。 ・つくした。 ・のは、 ・のは、 ・のは、 ・のは、 ・のは、 ・のは、 ・のは、 ・のは、	$\begin{array}{c} 1.62(k,S)\\ 1.62(k,S)\\ 1.62(k,G)\\ 1.62(k,G)\\$	$\label{eq:2.1} \begin{split} &1+4y_{2.1} \\ &1+5+4y_{4.1} \\ &1+5+4y_{4.1} \\ &1+5+4y_{4.2} \\ &1+5+4y_{4.2}$	$\begin{array}{c} -2, 5, -, \\ -1, 2, 4, -1, \\ -1, 2, 4, -1, \\ -1, 2, 2, -1, \\ -1, 2, 2, 2, -1, \\ -1,$	$\begin{split} & -\alpha \partial \phi_{1,k} \\ & -\alpha \partial \phi_{2,k} \\ & $	$\begin{array}{c} -441, 2 & (-49), 1 & (-157), 0 \\ -441, 2 & (-14), 2 & (-157), 0 \\ -441, 2 & (-14), 2 & (-157), 0 \\ -441, 2 & (-14), 2 & (-157), 0 \\ -441, 4 & (-14), 2 & (-157), 0 \\ -441, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 2 & (-157), 0 \\ -442, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157), 0 \\ -444, 4 & (-14), 4 & (-157$
	$\label{eq:response} \begin{split} & \mathbf{H} \\ & \mathbf{H}$		100-0-0-0- -100-0-0 -100-0-0 -10-0-0 -10-0-0 -1.	(2) (4) (4) (4) (4) (4) (4) (4) (4	$\begin{array}{c} -12.2 \\ -12.1 \\ + \\ -12.1 \\ + \\ -10.0 \\ + \\ -10$	$\begin{array}{c} +40.60, \sigma \\ +40.60, \sigma \\ +10.65, s $	- 《北京》中, - 《北京》中 - 《北京》中 - 《北京》中 - 《北京》中 - 《北京》中 - 《北京》中 - 《北京》中 - 《北京》中 - 《北京》中 - 《北京)中 - 《北京	6003.0 0032.0 0120.0 0120.0 010.0 0100.0 0100.0 0100.0 0100.0 0100.0 0100.0 0100.0 0100.0	14214.5 14240.1 14240.1 14245.2 14245.2 14255.4 14255.4 14255.4 14255.4 14255.4 14245.2 14245.41445.4 14245.4 14245.41445.4 14245.4 14245.41445.4 1445.4 1445.41445.4 1445.4 1445.41445.4 1445.4 1445.41445.4 1445.4 1445.41445.4 1445.4 1445.41445.41445.4 1445.41445.41445.414	$\label{eq:2.1} \begin{split} &1 + 4 + q_{1,1} \\ &1 + 5 + 6 + 4 + 4 \\ &1 + 5 + 6 + 4 + 4 \\ &1 + 5 + 5 + 4 + 4 \\ &1 + 5 + 5 + 4 + 4 \\ &1 + 5 + 5 + 4 + 4 \\ &1 + 4 + 6 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &1 + 4 + 6 + 5 + 1 \\ &2 + 2 + 6 + 5 \\ &1 + 4 + 6 + 5 \\ &2 + 2 + 6 + 5 \\ &2 + 2 + 5 + 5 \\ &2 + 2 + 5 + 5 \\ &2 + 2 + 5 + 5 \\ &2 + 2 + 5 + 5 \\ &2 + 2 + 5 + 5 \\ &2 + 2 + 5 \\ &2 + 2 + 5 \\ &2 + 5 + 5 \\ &2 + $	$\begin{array}{c} -1 \geq 2 + q \\ -1 \geq 2 \geq 2 + q \\ -1 \geq 2 \geq 2 + q \\ -1 \geq 2 \geq 2 + 1 \\ -1 \leq 2 + 1 \\ -1 = 2 + 1 \\ -1 $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - (-) \partial \phi_{1,k} \\ & - (-) \partial \phi_{1,k} \\ & - (-) \partial \phi_{2,k} \\ & - $	$\begin{array}{c} +44,1,2 & (-49,1,1) & (-157),0 \\ +44,1,2 & (-14),2 & (-177),0 \\ +44,1,2 & (-14),2 & (-177),0 \\ +44,1,2 & (-14),2 & (-177),0 \\ +44,1,4 & (-14),2 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),4 & (-177),0 \\ +44,1,4 & (-14),2 & (-177),0 \\ +44,1,4 & (-14),2 & (-177),0 \\ +44,1,4 & (-14),2 & (-177),0 \\ +44,1,4 & (-14),2 & (-177),0 \\ +44,4 & (-14),2 & (-177),0 \\ +44,4 & (-14),2 & (-177),0 \\ +44,4 & (-14),4 & (-177),0 \\ +44,1 & (-177),0 \\ +44$
	14 14 14 14 14 14 14 14 14 14		1.0-0-0210 2.4.5-5-8 2.4.5-6-8 2.4.5-6-8 2.4.5-6-8 2.4.5-7 2		$\begin{array}{c} -112, 1\\ -113, 4\\ -113, 4\\ -100,$	$\label{eq:constraints} \begin{array}{c} -400400, -, -6, \\ $	$\begin{array}{c} -764, \\ + \\ -744, \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ $	9003.0 -1002.0 -100	$\label{eq:constraints} \begin{split} 1.62(3.4,8)\\ 1.62(3.4,1,2)\\ 1.62$	$\begin{array}{c} 1+4y_{1,1}\\ 1+4y_{1,2}\\ 1+4y_{1,2}\\ 1+4y_{1,2}\\ 1+2y_{1,2}\\ 1+2y_{1,2}\\ 1+2y_{1,2}\\ 1+2y_{2,2}\\ 1+4y_{2,2}\\ 1+4y_{2,2}\\$	$\begin{array}{c} -2 & (2+3) \\ -2 & (2+3) $	$\begin{split} & - 0 \partial \phi (z, k) \\ & - (z, y) - (z,$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} (-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1)$	1.0-0-2010 1.4-0-5-8 1.4-4-8 1.4-4-8	(2) () () () () () () () () ()	$\begin{array}{c} -112, 1\\ -113, 4\\ -113,$		$\begin{array}{c} -244, \\ +244, \\$	会自己了这一次, 一日子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子子	$\begin{split} & 1.6(3) 4.8 \\ & 1.6(2) 4.9 \\ & 1.6(2) 4.9 \\ & 1.6(2) 4.9 \\ & 1.6(2) 5.9 \\ & $	$\label{eq:2.1} \begin{split} &1+4y(z,L)\\ &1+5+0(L-4,-4)\\ &1+5+0(L-4,-4)\\ &1+5+0(L-4,-4)\\ &1+5+0(L-4,-4)\\ &1+5+0(L-4,-4)\\ &1+5+0(L-4,-4)\\ &1+1+0(L-4,-5)\\ &1+1+0(L-4,-5)\\ &1+0(L-4,-5)\\ &1+0(L-4,-5$	$\begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - v_{1,0} \partial \phi_{1,0} \\ & - v_{1$	$\begin{array}{c} -441, 2 & (-491, 1) & (-491, 1) & (-1571, 0) \\ -441, 2 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -451, 2 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -451, 3 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -451, 4 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1571, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1521, 0) & (-1571, 0) & (-1571, 0) \\ -452, 4 & (-1521, 0) & (-1571, 0)$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} \\ c_{1} c_{2} c_{1} \\ c_{2} c_{1} \\ c_{2} c_{2} \\ c_{1} c_{2} \\ c_{2} c_{2} \\ c_{2} c_{2} \\ c_$	1.0-0-2010 1.4-5-5-8 1.4-56-8 1.4-56-8 1.4-571-8 1.4-572-4 1	(2) (1) weld) (2) A. (4) W. 5. (3) A. (4) N. 5. (4) A. (5) A. (5) A. (7) A.	$\begin{array}{c} -12.2 \\ -113.4$	$\begin{split} &-40_{10} 4_{10} - a_{1} \\ &-40_{10} 4_{10} - 1, a_{1} \\ &-40_{10} 4_{10} - 4, a_{1} \\ &-40_{10} 4_{10} + 2, a_{1} \\ &-40_$	$\begin{array}{c} -744, \\$	(2023):00-00-00-00-00-00-00-00-00-00-00-00-00-	$\label{eq:constraints} \begin{split} 1.62(34,8) \\ 1.62(34,1) \\ 1.62$	$\label{eq:2.1} \begin{array}{l} 1 + 4 + q_{1} , 1 \\ 1 + 1 + q_{1} , q_{1} , q_{1} \\ 1 + 1 + q_{1} , q_{1} , q_{1} \\ 1 + 1 + q_{1} , q_{1} , q_{1} \\ 1 + 1 + q_{2} , q_{1} , q_{1} \\ 1 + 1 + q_{2} , q_{1} , q_{1} \\ 1 + q_{1} , q_{1} , q_{1} , q_{1} \\ 1 + q_{1} , q_{1} , q_{1} , q_{1} \\ 1 + q_{1$	$\begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - (-) \partial \phi_{1,k} \\ & - (-) \partial \phi_{1,k} \\ & - (-) \partial \phi_{2,k} \partial \phi_{1,k} \\ & - (-) \partial \phi_{1,k} \partial \phi_{1,k} \\ & - $	$\begin{array}{c} +44,1,2 & (-49,1,1) & (-157),0 \\ +44,1,2 & (-157),0 \\ +44,1,2 & (-157),0 \\ +44,1,2 & (-157),0 \\ +44,1,2 & (-157),0 \\ +45,1,3 & (-157),0 \\ +45,1,3 & (-157),0 \\ +45,1,4 & ($
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} +100, -5, -5, \\ +100, -1$	1.00-0010 1.4.460.8	(2) () = 42 (2) (3) (3) (3) (2) (3) (3) (3) (3) (3) (3) (3)	$\begin{array}{c} -112, \\ -113, \\ 4, \\ -113, \\ 4, \\ -100, \\ 9, \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \\ 0, \\$	$\label{eq:constraints} \begin{split} &-40.449, -\dot{a}, $	$\begin{array}{c} -2444 \\$	(2023):0 (1)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)(2)	14234.5 14240.1 14240.1 14245.2 14253.4 14253.4 14253.4 14253.4 14253.4 14253.4 14243.4 14443.414443.4 14443.414443.414443.	$\label{eq:2.1} \begin{array}{l} 1 + 4 + y_{1,1} \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 0 + 1 \\ 1 + 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 0 + 2 \\ 1 + 0 + 0 + 0 + 0 + 2 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 \\ 1 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 \\ 1 + 0 + 0 \\ 1 + 0 + 0 + 0 \\ 1 $	$\begin{array}{c} -2 + 5 + 6 \\ -2 + 5 + 6 \\ -2 + 5 + 6 \\ -2 + 5 + 6 \\ -2 + 5 + 5 \\ -2 + 5 \\ -2 + 5 + 5 \\ -2$	$\begin{split} & - \alpha \phi \phi (z, z, z) \\ & - \alpha (z, w, z) + 1 \\ & - \alpha (z, w, z) + 1 \\ & - \alpha (z, \phi, \phi, z) + 1 \\ & - \alpha (z, \phi, \phi, \phi, z) + 1 \\ & - \alpha (z, \phi, \phi, \phi, z) + 1 \\ & - \alpha (z, \phi, \phi, z) + 1 \\ & - \alpha (z, \phi, \phi, z) + 1 \\ & - \alpha (z, \phi, z) + 1$	$\begin{array}{c} +44,1,2 & (-49,1,1) & (-157),0 \\ +44,1,2 & (-157),0 \\ +44,1,2 & (-157),0 \\ +44,1,2 & (-157),0 \\ +44,1,2 & (-157),0 \\ +45,1,3 & (-157),0 \\ +45,1,3 & (-157),0 \\ +45,1,4 & ($
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1}(0) = 1, \ c_{2}(0) = 1, \ $	1.2.00-2320 2.4.05-5.4 2.4.05-8.4 2.4.0		$\begin{array}{c} -121, 2\\ -111, 4\\ -111,$	$\begin{split} &-40040, a\\ &-40042, a\\ &-40042, a\\ &-40042, a\\ &-40042, a\\ &-40042, a\\ &-40042, a\\ &-4004042, a\\ &-40042, a\\ &-40042$	$\begin{array}{c} -7444\\ -7444$ -7444\\ -7444 -7444\\ -7444 -7444 -7444 -7444 -7444 -7	6003.0 1015年7月、11日、11日、11日、11日、11日、11日、11日、11日、11日、11	14234.5 14240.1 14240.1 14245.2 14255.41445.4 14255.4 14455.4 14455.4 14455.41445.4 14455.4 14455.4 14455.41445.4 14455.4 14455.4 14455.41445.4 14455.4 14455.41445.4 14455.4 14455.41445.4 14455.4 14455.41445.4 14455.41445.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.4 14455.414455.414455.4 14455.414455.414455.	$\label{eq:solution} \begin{split} &1+d_{ij}(z), d_{ij}(z), d_{ij}$	$\begin{array}{c} -1 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\$	$\begin{split} & -\alpha \partial \phi_{1,k} \\ & -\alpha \partial \phi_{1,k} \\ & -\alpha \partial \phi_{1,k} \\ & -\alpha \partial \phi_{2,k} \\ & $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1}(0, 0) = 1, \\ c_{1}(0, 0) = 1, \\ c_{2}(0, 0) = 1, \\ c_$	1.0-0-2010 1.4.5.5.4 1.4.5.6.8 1.4.5.8.8 1.4.5.8.8.8.8 1.4.5.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	(2) (1) or 47 (3) (4) or 47. (3) (4) (4) (5) (3) (4) (4) (5) (4) (4) (5) (4) (4) (5) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	$\begin{array}{c} -112 \\ -111 \\ +\\ -113 \\ +\\ -100 \\ +\\ -1$	$\begin{array}{c} -40, 40, -, +, \\ -40, 40, -, +, \\ -40, 40, -, -, \\ -40, 40, -, -, \\ -40, 40, -, -, \\ -40,$	$\begin{array}{c} -7444\\ -7$	$\label{eq:2.1} \begin{split} & g_{2}g_{2}g_{3}g_{4}g_{4}g_{4}g_{4}g_{4}g_{4}g_{4}g_{4$	$\label{eq:constraints} \begin{split} 1.62(3.4,8) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.62(3.4,1) \\ 1.64(3.4$	$\label{eq:2.1} \begin{array}{l} 1 + 4 + q_{1} + 1 \\ 1 + 1 + q_{1} + q_{1} + q_{1} \\ 1 + 1 + q_{1} + q_{1} + q_{1} \\ 1 + 1 + q_{1} + q_{2} + q_{1} \\ 1 + q_{1} + q_{2} + q_{2} \\ 1 + q_{1} + q_{2} + q_{2} + q_{1} \\ 1 + q_{2} + q_{2} + q_{1} + q_{2} + q_{2} \\ 1 + q_{2} \\ 1 + q_{2} + $	$ \begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\begin{split} & - \alpha \partial \phi (z, k) \\ & - \alpha \partial (\phi + z, k) \\ & - \alpha \partial$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} - (-\alpha_{1})_{1,1} \\ - $	1.00-0230 1.40-53.0	(2), () or 42 () A (A (A (A (A (A (A (A (A (A	$\begin{array}{c} -131.2 \\ -1131.4 \\ -1131.4 \\ -1131.4 \\ -100.4 \\ -1$	$\label{eq:constraints} \begin{split} &-400400, -\dot{a}, -\dot{a}, \\ &-400402, -\dot{a}, \\ &-400402, -\dot{a}, \\ &-400402, -\dot{a}, \\ &-400402, -\dot{a}, \\ &-400400, -400400, \\ &-400400, -400, \\ &-40040, -400, \\ &-40040, -400, \\ &-40040, -400, \\ &-40040, -400, \\ &-40040, -400, \\ &-40040, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, \\ &-400, -400, -400, -400, -400, \\ &-400, -400, -400, -400, -400, \\ &-400, -400, -400, -400, -400, \\ &-400, -400, -400, -400, -400, \\ &-400, -400, -400, -400, -400, \\ &-400, -40$	$\begin{array}{c} -244, \\$	今日の3、0 (1)25-10-10-10-10-10-10-10-10-10-10-10-10-10-	$\begin{split} & 1.6(3) 4.8 \\ & 1.6(3) 4.9 \\ & $	$\label{eq:2.1} \begin{split} &1+4+y_{1,1} \\ &1+4+b_{1,2} \\ &1+4+b_{2,1} \\ &1+4+b_{2,2} \\ &1$	$\begin{array}{c} -1 \\ + 1 \\ + 2 \\ $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - v_{1,k} \partial \phi_{1,k} \\ & - v_{1,k} \partial \phi_{1,k} \partial \phi_{1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} (-1) & $	1.1.00-2310 1.4.45,5.4 1.4.4		$\begin{array}{c} -112, 1\\ -113, 4\\ -113,$	$\begin{split} &+40460, \dot{\sigma} \\ &+40462, \dot{\sigma} \\ &+10462, \dot{\sigma} \\ &+104622, \dot{\sigma} \\ &+1046222222222222222222$	$\begin{array}{c} -344, \\$	6003.0 1010年間 1010年 1010年 1010年 1010年 1010年 1010年 1010年 1010年 1010 1000	$\label{eq:constraints} \begin{split} 1.62(3,4,8) \\ 1.62(3,4,5) \\ 1.62(3,4,5) \\ 1.62(3,4,5) \\ 1.62(3,4,5) \\ 1.62(3,5), \\$	$\label{eq:2.1} \begin{array}{l} 1 + 4 + y_{1,1} \\ 1 + 1 + 0 + 0 + 4 - 4 \\ 1 + 1 + 0 + 0 + 4 - 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 $	$ \begin{array}{c} -2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - (\partial - \phi_{1,k})_{1,k} \\ & - (\partial - \phi_{1,k})_{1,k$	$\begin{array}{c} +a_{1}^{2}, y = (a_{2}^{2}, z) = (157), 0 \\ +a_{1}^{2}, y = (137), 0 \\ +a_{1}^{2}, y = (137), 0 \\ +a_{1}^{2}, z = (137), 0 \\ +a_{2}^{2}, z = (137), 0$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} c_{1} \\ c_{1} c_{2} c_{1} \\ c_{2} c_{1} c_{2} c_{2} \\ c_{1} c_{2} c_{2} c_{2} c_{2} \\ c_{2} c_{1} c_{2} c_{2} c_{2} \\ c_{2} c_{2} c_{2} c_{2} c_{2} c_{2} c_{2} \\ c_{2} c_{2} c_{2} c_{2} c_{2} c_{2} c_{2} \\ c_{2} c_{2} c_{2} c_{2} c_{2} c_{2} c_{2} \\ c_{2} c_{2} \\ c_{2} c_{2} c_{2} \\ c_{2$	100-0-0-0- -1. 4. 4. 66. 8 -1. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		$\begin{array}{c} -112 \\ -111 \\ +\\ -113 \\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +$	$\begin{split} -& 44040, a_1, a_2, a_3, a_4, a_4, a_4, a_5, a_6, a_6, a_6, a_6, a_6, a_6, a_6, a_6$	$\begin{array}{c} -7444\\ -7$	수가의 가격 관계 가격 가격 가격 관계 가격 가격 가격 관계 가격	$\begin{split} 1.62(3.4,8)\\ 1.62(3.4,1)$	$\label{eq:2.1} \begin{array}{l} 1 + 4 + y_{1,1} \\ 1 + 1 + 0 + 0 + 4 - 4 \\ 1 + 1 + 0 + 0 + 4 - 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 $	$\begin{array}{c} -1 \\ +1 \\ +1 \\ +1 \\ +1 \\ +1 \\ +1 \\ +1 \\$	$\begin{split} & - 0 \partial \phi_{1,k} \\ & + (\phi_{1} - \phi_{1} - \phi_{1}) \\ & + (\phi_{1} - \phi_{1} - \phi_{1}) \\ & + (\phi_{1} - \phi_{1} - \phi_{1}) \\ & + (\phi_{1} - \phi_{1}) $	$\begin{array}{c} +441, 9 & -494, 1 & -1571, 0 \\ +441, 7 & -494, 4 & -1571, 0 \\ +441, 7 & -444, 4 & -1571, 0 \\ +441, 7 & -444, 4 & -1571, 0 \\ +451, 3 & -444, 4 & -1571, 0 \\ +451, 4 & -441, 4 & -1571, 0 \\ +451, 4 & -451, 4 & -157$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} (-1) (-1) (-1) (-1) (-1) (-1) (-1) (-1)$	1.000-0210 2.40-5.40 2.44-5.40	(2) (1) en 40 ² (3) An	$\begin{array}{c} -112, 1\\ -113, 4\\ +113, 4\\ +113, 4\\ +113, 4\\ +113, 4\\ +113, 4\\ +113, 4\\ +133,$	$\label{eq:constraints} \begin{split} &-404449, -\dot{a}, $	$\begin{array}{c} -2444\\ + 2444\\ $	今日の3、00、00、00、00、00、00、00、00、00、00、00、00、00	$\begin{split} & 1.62(3.4,8)\\ & 1.62(4.$	$\label{eq:2.1} \begin{split} &1+4y_{2.1} \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-4 \\ &1+5+64-54-5 \\ &1+5+64-54-5-2 \\ &1+6+64-54-5-5-2 \\ &1+6+64-54-5-5-2 \\ &1+6+64-54-5-5-2 \\ &1+6+64-54-5-5-5-2 \\ &1+6+64-54-5-5-5-5-2 \\ &1+6+64-54-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-$	$\begin{array}{c} -1 \\ + 1 \\ + 2 \\ $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - (1 - 0) \phi_{1,k} \\ $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} c_{1} \\ c_{1} c_{2} c_{3} c_{1} \\ c_{2} c_{3} c_{2} c_{3} \\ c_{1} c_{2} c_{3} c_{3} c_{3} \\ c_{2} c_{3} c_{2} c_{3} c_{3} \\ c_{2} c_{3} c_{3} c_{3} \\ c_{2} c_{3} c_{3} c_{3} \\ c_{3} c_{3} c_{3} c_{3} \\ c_{3} c_{3} c_{3} c_{3} \\ c_{4} c_{4} c_{4} c_{4} \\ c_{4} c_{4} c_{4} c_{4} \\ c_{4} c_{4} c_{4} c_{4} \\ c_{4} \\ c_{4} c_{4} \\ c_$	1.2.00-232.0 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4 2.4.4.5.4.4.4 2.4.4.5.4.4.4 2.4.4.5.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.4.5.4.4.4.4 2.4.5.4.5.4.4.4 2.4.5.4.5.4.4.4 2.4.5.4.5.4.4.4 2.4.5.4.5.4.4.4 2.4.5.4.5.4.4.4 2.4.5.4.5.4.4.4.4 2.4.5.4.5.4.4.4.4.4 2.4.5.4.5.4.4.4.4.4.4.4 2.4.5.4.5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	(2) (1) or 42 ³ (2) (2) or 42 ³ (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	$\begin{array}{c} -112, 1\\ -113, 4\\ -113,$	$\begin{split} & -40 a G (-, -, -, -, -, -, -, -, -, -, -, -, -, -$	$\begin{array}{c} -2444\\ -2$	(202), (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	$\begin{split} 1.62(34,8)\\ 1.62(34,3)\\ 1.$		$\begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\begin{split} & - 0 \partial \phi_{1,k} \\ & + (-) \partial \phi_{1,k} \\ & + $	$\begin{array}{c} +441, 9 & -494, 1 & -1571, 0 \\ +441, 9 & -494, 4 & -1571, 0 \\ +441, 7 & -474, 4 & -1572, 0 \\ +471, 9 & -474, 9 & -1572, 0 \\ +471, 4 & -464, 4 & -1572, 0 \\ +471, 4 & -464, 4 & -1572, 0 \\ +474, 5 & -474, 4 & -1572, 0 \\ +474, 5 & -474, 4 & -1572, 0 \\ +474, 5 & -474, 4 & -1572, 0 \\ +474, 5 & -474, 4 & -1572, 0 \\ +474, 5 & -474, 4 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 5 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 5 & -1572, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -1474, 0 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 1 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474, 4 & -144, 4 \\ +474, 4 & -474,$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} c_{1} \\ c_{2} c_{1} c_{2} \\ c_{1} c_{2} c_{2} \\ c_{2} c_{2} \\ c_{2} c_{2} \\ c_{2} \\ c_{2} c_{2} \\ $	1.0-0-0210 1.4.464.8		$\begin{array}{c} -112 \\ -111 \\ +\\ -111 \\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +\\ +$	$\label{eq:constraints} \begin{split} &+ 440440 + , a \\ &+ 440440 + , a \\ &+ 404451 + , b \\ &+ 404452 + , b \\ &+ $	$\begin{array}{c} -2444 \\$	유가의 가격	14234.5 14244.5 14244.2 14245.3 14245.5 1445.5145.5 1445.5 1445.5 1445.5145.5 1445.5 1445.5145.5 1445.5145.5 1445.5145.5 1445.5145.5 1445.5145	$\label{eq:2.1} \begin{array}{l} 1 + 4 + y_{1,1} \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 4 \\ 1 + 1 + 0 + 0 + 0 \\ 1 + 1 + 0 + 0 + 0 \\ 1 + 1 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 1 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 + 0 + 0 \\ 1 + 0 + 0 \\ 1 + 0 + 0 $	$ \begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\label{eq:constraints} \begin{split} &-\alpha \partial \phi (z, k) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) +$	$\begin{array}{c} + 444, 1 & - 494, 1 & - 1571, 0 \\ + 444, 1 & - 1494, 4 & - 1571, 0 \\ + 444, 1 & - 1494, 4 & - 1571, 0 \\ + 444, 1 & - 1494, 4 & - 1571, 0 \\ + 444, 1 & - 1494, 4 & - 1571, 0 \\ + 451, 1 & - 1494, 4 & - 1571, 0 \\ + 451, 1 & - 1494, 4 & - 1571, 0 \\ + 451, 1 & - 1494, 4 & - 1571, 0 \\ + 452, 2 & - 144, 4 & - 1571, 0 \\ + 452, 2 & - 144, 4 & - 1571, 0 \\ + 452, 2 & - 144, 4 & - 1571, 0 \\ + 452, 2 & - 144, 4 & - 1571, 0 \\ + 452, 2 & - 144, 4 & - 1571, 0 \\ + 452, 2 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 144, 2 & - 1571, 0 \\ + 452, 4 & - 1571, 0 \\ $
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} c_{2} \\ c_{1} c_{2} c_{2} c_{2} \\ c_{2} c_{2} c_{2} \\ c_{2} c_{2} c_{2} \\ c_{2} c_{2} c_{2} \\ $	1.2.00-2010 2.4.0	(2) 1 × 40 ² (2) 4 × 40 ⁴ × 5 (2) 4 × 5 ⁴ ×	$\begin{array}{c} -112, i\\ -113, i\\ -113,$	$\begin{split} &-440440 + a \\ &-44040 + a \\ &-440$	$\begin{array}{c} -744, \\$	为2013年建築 2013年建築 2013年建築 2013年建築 2013年建築 2013年建築 2013年度 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013年 2013 2013 2013 2013 2013 2013 2013 2013	14234.5 14244.5 14244.5 14244.5 14245.5145.5 14245.5 14245.5 14245.5145.5 14245.5 14245.5 14245.5 14245.5145.5 14245.5 14245.5 14245.5 14245.5145.5 14245.5 14245.5145.5 14245.5 14245.5145.5 14245.5 14245.5145.5 14245.5 14245.5145.5 14245.5 14245.5145.5 14245.5145.5 14245.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 145.5145.5 145.514	$\label{eq:spherical_states} \begin{split} & 1 + d_{ij} (x_{ij}) = 1 + d_{ij} (x_{ij}) + d_{ij}$	$\begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\label{eq:constraints} \begin{split} &-\alpha \partial \phi (z, k) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) + (z, m) + (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) \\ &-\alpha (z, m) + (z, m) +$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	14 14 14 14 14 14 14 14 14 14	$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} c_{1} \\ c_{1} c_{2} c_{1} c_{2} \\ c_{2} c_{1} c_{2} c_{2} \\ c_{1} c_{2} c_{2} c_{2} c_{2} \\ c_{2} c_{2} \\ c_{2} c_{2} \\ c_{2} \\ c_{2} c_{2} \\ c_{2} $	1.0-0-2010 1.4-5-5-8 1.4-5-8 1	12.1.4.4.7 14.4.4.7 14.4.4.7 14.4.4.7.5 14.4.4.7.5.9 14.4.4.7.5.9 14.4.4.7.5.9 14.4.4.7.5.9 14.4.4.7.5.9 14.4.4.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.6 14.4.4.7.7.7.7.6 14.4.4.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7	$\begin{array}{c} -13.2 \\ -13.1 \\ + \\ -13.4 \\ + \\ -10.0 \\ + \\ -10$	$\begin{array}{c} -40, 60, -6, -6, -8, -1, -1, -1, -1, -1, -1, -1, -1, -1, -1$	$\begin{array}{c} -7444\\ -7$	为为为于这些,我们的一个人,我们就是有一个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是一个人,我们就是这个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是这个人,我们就是不是人,你们就是不是人,你们也不是人,你们们就是不是人,你们们就是不是人,你们们就是不是人,你们们就是你们的人,你们也不是人,你们们就是不是人,你们们就是不是人,你们们就是不是人,你们们也不是人,你们们也不是人,你们还是人,你们们就是什么人,你们也不是人,你们也不是人,你们还是不是人,你们还不是人,你们还是人,你们不是人,你们们也不是人,你们们也不是人,你们们也不是人,你们们也不是人,你们们还是人,你们不是人,你们也不是人,你们们也不是人,你们们还是不是人,你们不是人,你们们还是人,你们们还是不是人,你们们还是不是人,你们们们们也不是人,你们们们们也不是不是不是人,你们们们们们也不是人,你们们们们也不是人,你们们们们们们也不是不是人人,你们们们们们们也不是人,你们们们们们们也不是不是人人,你们们们们也不是人人,你们们们们们们也不是不是不是人人,你们们们们们们们们也不是不是人人,你们们们们也不是人,你们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们不是	14234.5 14244.5 14244.5 14244.5 14244.5 14245.5145.5	$\label{eq:2.1} \begin{array}{l} 1 = 4 + q_{1} + 1 \\ 1 = 4 + q_{1} + 1 \\ 1 = 4 + q_{1} + 1 \\ 1 = 4 + q_{1} + q_{2} + 1 \\ 1 = 4 + q_{1} + q_{2} + 1 \\ 1 = 4 + q_{2} + q_{2} + 1 \\ 1 = 1 + q_{2} + q_{2} + q_{2} + 1 \\ 1 = 1 + q_{2} + q_{2} + q_{2} + 1 \\ 1 = 1 + q_{2} + $	$ = \frac{1}{2} \left\{ \begin{array}{c} -\frac{1}{2} \left\{ \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right\} + \frac{1}{2} \left\{ \frac{1}{2} + \frac{1}{2} +$	$\begin{split} & - \alpha \partial \phi (z, k) \\ & + \alpha \partial (\phi + v, k) \\ & + \alpha \partial (\phi + v, k) \\ & + \alpha \partial (\phi + \phi) \\ & - \alpha$	$\begin{array}{c} +441, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	14 14 15 1 - 1 - 1 - 2 - 2 16 1 - 1 - 1 - 2 - 2 17 1 - 1 - 1 - 2 - 2 18 1 - 1 - 1 - 2 - 2 18 1 - 1 - 1 - 2 - 2 18 1 - 2 18 1 - 2 18 2 - 2 18 1 - 2 18 2 - 2	$\label{eq:constraints} \begin{array}{c} (-1) & $	1.0-0-2010 1.4-5-5-8 1.4-5-8 1	(2) (1) or 42 ³ (2) A. (4) A. N. (3) A. (4) A. N. (3) A. (4) A. N. (4) A. (5) A. A. ($\begin{array}{c} -112, 1\\ -113, 4\\ -113,$	$\label{eq:constraints} \begin{split} &-4004007, a,b,c,c,c,c,c,c,c,c,c,c,c,c,c,c,c,c,c,c,$	$\begin{array}{c} -7444 \\$	为为为于这些,我们的一个人,我们就是有一个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是一个人,我们就是这个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是这个人,我们就是不是人,你们就是不是人,你们也不是人,你们们就是不是人,你们们就是不是人,你们们就是不是人,你们们就是你们的人,你们也不是人,你们们就是不是人,你们们就是不是人,你们们就是不是人,你们们也不是人,你们们也不是人,你们还是人,你们们就是什么人,你们也不是人,你们也不是人,你们还是不是人,你们还不是人,你们还是人,你们不是人,你们们也不是人,你们们也不是人,你们们也不是人,你们们也不是人,你们们还是人,你们不是人,你们也不是人,你们们也不是人,你们们还是不是人,你们不是人,你们们还是人,你们们还是不是人,你们们还是不是人,你们们们们也不是人,你们们们们也不是不是不是人,你们们们们们也不是人,你们们们们也不是人,你们们们们们们也不是不是人人,你们们们们们们也不是人,你们们们们们们也不是不是人人,你们们们们也不是人人,你们们们们们们也不是不是不是人人,你们们们们们们们们也不是不是人人,你们们们们也不是人,你们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们不是	$\begin{split} & 1.65(k,S)($	$\label{eq:constraints} \begin{split} &1+4+y_{1,1} \\ &1+4+y_{1,2} \\ &1+4+y_{1,2} \\ &1+4+y_{1,2} \\ &1+4+y_{2,2} \\ &1+4+y_{2$	$ \begin{array}{c} -1 \\ +1 \\ +1 \\ +1 \\ +1 \\ +1 \\ +1 \\ +1 \\$	$\begin{split} & - 0 \partial \phi_{1,k} \\ & - v \partial $	$\begin{array}{c} +441, 9 & -494, 1 & -1571, 0 \\ +441, 9 & -494, 1 & -1571, 0 \\ +471, 9 & -494, 1 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +471, 1 & -444, 2 & -1571, 0 \\ +474, 1 & -474, 2 & -1574, 0 \\ +474, 1 & -474, 2 & -1574, 0 \\ +474, 1 & -474, 2 & -1574, 0 \\ +474, 1 & -474, 2 & -1574, 0 \\ +474, 1 & -474, 2 & -1574, 0 \\ +474, 1 & -474, 2 & -1574, 0 \\ +474, 1 & -474, 2 & -154, 0 \\ +474, 1 & -474, 0 & -154, 0 \\ +474, 1 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -154, 0 \\ +474, 0 & -474, 0 & -474, 0 \\ +474, 0 & -474, 0 & -474, 0 \\ +474, 0 & -474, 0 & -474, 0 \\ +474, 0 &$
		$\label{eq:constraints} \begin{array}{c} c_{1} c_{2} c_{1} c_{1} \\ c_{2} c_{1} c_{2} c_{2} \\ c_{3} c_{4} c_{2} c_{3} c_{3} \\ c_{4} c_{2} c_{3} c_{4} \\ c_{4} c_{4} c_{3} c_{4} \\ c_{4} c_{4} c_{4} \\ c_{4} c_{4} \\ c_{4} \\ c_{4} c_{4} \\ c_{4} $	1.1.00-2310 2.4.5%3.4 2.4.5%3.4 1.4.5%3.4 1.4.5%3.4 2.5%3.4 2.5%3.4	(1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (5) (4) (4) (5) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	$\begin{array}{c} -112, 1\\ -113, 4\\ -113,$	$\begin{aligned} &+40460, -h \\ &+40462, -h \\ &+40462,$	$\begin{array}{c} -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7444\\ -7442\\ -7444\\ -7$	为为为于通道。 为于是一个人们的,我们就是一个人们的。 为于是一个人们的一个人们的。 为于是一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的一个人们的	14234.5 14244.5 14244.5 14245.2 14245.2 14245.5145.5 14245.5 14245.5 14245.5 14245.5145.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5 14245.5145.5 14245.5 14245.5 14245.5145.5 14245.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 14245.5145.5 145.5145.5 145.5145.5 145.5145.5 145.5	$\label{eq:2.1} \begin{split} &1 + 4 + y_{1,1} \\ &1 + 1 + 0 + 0 + 4 - 4 \\ &1 + 1 + 0 + 0 + 4 - 4 \\ &1 + 1 + 0 + 0 + 4 + 4 \\ &1 + 1 + 0 + 0 + 0 + 1 \\ &1 + 1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 1 \\ &1 + 0 + 0 + 0 + 0 \\ &1 + 0 + 0 + 0 + 0 \\ &1 + 0 + 0 \\ &1 + 0 + 0 \\ &1 + 0 + $	$\label{eq:constraints} \begin{array}{c} -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 \\ -1 $	$\begin{split} &-\phi\phi\phi_{1,k}\\ &-\phi_{1,k}\\ &-\phi_{$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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ATTACHMENT 3

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1.0 PURPOSE

The purpose of this calculation package is to calculate crack growth in the susceptible material regions (SMRs), which include the nozzle-to-safe end weld (DMW1), safe end (SE) and safe end-to-pipe weld (DMW2), for the spray nozzle with weld overlay (WOL) repair. Loads considered are external piping loads, internal pressure, thermal transients, local effect of stratification, and residual stress. Both fatigue crack growth (FCG) and Primary Water Stress Corrosion Cracking (PWSCC) are considered. PWSCC is due to sustained loading at steady state normal operating conditions.

2.0 METHODOLOGY

Representative fracture mechanics models (Section 3.2) are used to determine stress intensity factors (K) within the susceptible material regions. The stress intensity factors for each type of load are computed as a function of assumed crack depth in the susceptible and superimposed for the various operating states. Stresses that contribute to fatigue crack growth and PWSCC are compiled from previous calculations (References 4 and 6). These stresses resulted from primary loads such as internal pressure and external piping loads, and secondary loads such thermal gradient stresses (due to thermal transient events), and residual stresses. The through-wall stresses are extracted and curve fitted to a third order polynomial. FCG (or combined FCG and PWSCC growth if PWSCC is active) is computed using linear elastic fracture mechanics (LEFM) techniques. Potential for PWSCC is determined by computing the stress intensity factor versus flaw depth curve (K-vs-a) at steady state normal operating conditions. A crack growth law for Alloy 600 weld metals (Alloy 82/Alloy 182) with a multiplier to account for crack growth in a pressurized water reactor (PWR) environment is used at the susceptible material regions. The time it takes for an initial flaw of 75% of the original base metal thickness to reach the overlay is reported.

3.0 DESIGN INPUTS

3.1 Geometry

Details of the spray nozzle geometry are provided in the finite element model calculation package [1]. The sections evaluated for crack growth, and considered representative for the susceptible material regions are shown in Figure 1. The three sections considered here are named DMW1, safe end and DMW2 as shown in Figure 1. Note that in the figure, the minimum and maximum dimensions of the sections (due to the use of minimum and maximum overlay designs in the finite element models [1]) are shown. The thinner (minimum weld overlay) section is used for pressure, piping interface loads and residual stresses. The thicker (maximum weld overlay) section is used for all local thermal gradient stresses. See Section 3.3 for descriptions of the different loads applied to the nozzle.



3.2 Fracture Mechanics Models

Three fracture mechanics models, two of which are from the EPRI Ductile Fracture Handbook [2] and one model for moment loading from Tada-Paris-Irwin [3], are shown in Figures 6 through 8. The three models are described below:

- <u>Circumferential flaw, under arbitrary through-wall stress distribution (EPRI Ductile Fracture</u> <u>Handbook model)</u>: full 360° flaw in a cylinder with the actual R_i/t ratio is used, where $1 \le R_i/t \le 10$. The R_i/t ratios are calculated as follows (geometric dimensions obtained from Figure 1):
 - Minimum WOL (DMW1): $R_i/t=(1.8125)/(1.05) = 1.73$
 - Maximum WOL (DMW1): $R_i/t = (1.8125)/(1.3) = 1.40$
 - Minimum WOL (Safe End): $R_i/t = (1.7638)/(1.0986) = 1.61$
 - Maximum WOL (Safe End): $R_i/t=(1.7638)/(1.3486) = 1.31$
 - Minimum WOL (DMW2): $R_i/t = (1.846)/(0.7715) = 2.39$
 - Maximum WOL (DMW2): $R_i/t = (1.846)/(1.11309) = 1.66$

It is determined in Reference 12 that the influence coefficients for calculating K must be computed using the plots provided in the reference as opposed to using the provided equation.

- <u>Circumferential flaw, moment loading (Tada-Paris-Irwin model)</u>: full 360° flaw in a cylinder with the actual inside radius-to-outside radius ratio R_i/R_o is used. The R_i/R_o ratios are calculated as follows (geometric dimensions obtained from Figure 1):
 - Minimum WOL (DMW1): $R_i/R_o = (1.8125)/(2.8625) = 0.633$
 - Maximum WOL (DMW1): $R_i/R_o = (1.8125)/(3.1125) = 0.58$
 - Minimum WOL (Safe End): $R_i/R_o = (1.7638)/(2.8624) = 0.616$
 - Maximum WOL (Safe End): $R_i/R_o = (1.7638)/(3.1124) = 0.57$
 - Minimum WOL (DMW2): $R_i/R_o = (1.846)/(2.6175) = 0.71$
 - o Maximum WOL (DMW2): $R_i/R_o = (1.846)/(2.9601) = 0.62$
- <u>Axial flaw under arbitrary through-wall stress distribution (EPRI Ductile Fracture Handbook</u> <u>model)</u>: semi-elliptical inside surface flaw with an aspect (depth-to-length) ratio of 0.2 in a cylinder is used for FCG and 0.5 for PWSCC. The reason a 0.5 aspect ratio was used for PWSCC is that, assuming stresses are compressive at normal operating pressure and temperature (for which PWSCC is evaluated, see Section 5.0 under "PWSCC"), a *higher* aspect ratio for semi-elliptical flaws would produce more conservative (less compressive) values of K. Note that for tensile K distributions, it is the opposite: a *lower* aspect ratio produces more conservative (greater tensile) values for K. The same R_i/t ratios computed for the circumferential flaw nonmoment loading are used, where $1 \le R_i/t \le 10$. Self-similar growth is assumed. The K at the deepest point is used.

In addition, the same axial flaw model but with internal pressure loading is used for the pressure loading.



Stress intensity factors using the above flaw models for all loads (Section 3.3) are all calculated via a Microsoft Excel Visual Basic for Applications (VBA) macro in spreadsheet "StressIntensityFactors1.xls." for DMW1, "StressIntensityFactorsSE.xls." for safe end, and "StressIntensityFactors2.xls." for DMW2. The macro is verified to ensure the equations from the EPRI Ductile Fracture Handbook [2] and the Paris-Tada-Irwin solution [3] are correctly used.

3.3 Loads

Loads considered (described in detail in the following sub-sections) are internal pressure, interface piping loads, local thermal gradient stresses due to thermal transients, local effect of stratification, and residual stresses. Through-wall stresses are curve fitted with a third order polynomial in the form shown below:

$$\sigma(\mathbf{x}) = C_0 + C_1 \mathbf{x} + C_2 \mathbf{x}^2 + C_3 \mathbf{x}^3 \tag{1}$$

where:

 σ = stress (axial or hoop) x = distance from the inside surface

Stresses were obtained for the above curve fits for through-wall paths in the susceptible material regions (Figure 2). These paths are defined in the thermal and mechanical stress analysis calculation package [4]. It is important to note that the critical paths selected within the SMR have different path lengths in addition to the fact that mechanical stresses and thermal stresses are extracted from models with the minimum and maximum overlays, respectively (Section 3.1). The intent for this approach is to characterize the stresses for each of the different loading conditions for three regions within the SMR. As long as the correct stresses are extracted from the correct model (minimum overlay model depending on the load type) and correct path, the resulting stress intensity factors are correct because crack growth is computed for only one representative section (Figure 1) using the most limiting path per each section (DMW1, safe end and DMW2 sections).

Curve fits for residual stresses are calculated in spreadsheets "1000320-314.xls" obtained from the residual stress analysis [6]. Linearized stresses and curve fits for local thermal gradient stresses (and stresses due to mechanical loads) are in spreadsheet "CG_SPRAY_DMW1.xls" for DMW1, "CG_SPRAY_DMWSE.xls" for safe end, and "CG_SPRAY_DMW2.xls" for DMW2. The curve fit coefficients are used to calculate the K-vs-a values using a K-solution from Paris-Tada-Irwin [3] for circumferential flaw moment loading (Figure 7) or input into the EPRI Ductile Fracture Handbook models [2] for the circumferential (non-moment loading) and axial flaws (Figures 6 and 8). These spreadsheets are included in the computer files. Table 1 shows the polynomial coefficients for all loads at the DMW1, safe end and DMW2 susceptible material regions. Details of how the Table 1 coefficients are obtained are explained in the following sub-sections.



Internal Pressure

In the thermal and mechanical stress analysis calculation package [4], a unit internal pressure load (1000 psig) was applied to the spray nozzle finite element model. The resulting through-wall stress distributions within the SMR were extracted and given a third order polynomial curve fit. Files "TMI_PR_P*_MAP.OUT" (* = 1 through 18), listed in Appendix A in the table labeled "Stress Output," contain the through-wall stress maps. These output files are obtained from [4]. The CSV file versions of these files contain the resulting stress coefficients for the unit pressure loading condition. The resulting stress coefficients are shown in Table 1 for DMW1, safe end and DMW2 regions. Stress intensity factors resulting from the stresses in Table 1 are scaled by actual pressure values during the transient. Note that a constant through-wall stress of 1000 psig is added to the C₀ coefficient of the "Unit Pressure" stresses to account for the internal pressure acting on the crack face.

Piping Interface Loads

The piping interface loads were determined in the design loads calculation package [5] and shown in Table 2. Finite element analyses for an applied unit axial force (1000 lbs) and unit moment (1000 in-lb) at the free end of the piping interface were performed in [4]. Through-wall stresses within the SMR were extracted from the analysis in [4] and included in this calculation package. See files "TMI_AXIAL_P*_MAP.OUT (*= 1 through 18), and "TMI_MOM\$_P*_MAP.OUT" (\$ = X and Z; * = 1 through 18) in Appendix A in the table labeled "Stress Output." These files are included in the computer files. For the axial stresses due to the unit moment load, only the maximum stress in the section is used because a constant stress is required in the fracture mechanics model that is used for moment loading (see Figure 7). Stress intensity factors using the fracture mechanics models described in Section 3.2 were determined from these stresses. Thermal piping interface loads are scaled to the actual temperatures during the transient. The resulting stress intensity factors are scaled in two ways: (1) by the axial force values (Fx) in Table 2 for the force Ks, (2) by the square root sum of the squares (SRSS) of the transverse moment values (Mx and Mz) in Table 2 for the moment Ks.

The resulting stress coefficients for the unit axial and unit moment cases are shown in Table 1.

Local Thermal Gradient Stresses

Bounding thermal transients for crack growth analysis are shown in Table 3, which were developed in the design loads calculation package [5]. Determining the thermal gradient stresses due to these transients is a two-step process. First, a bounding path in the SMR is selected by comparing the thermal gradient stresses at the six representative paths in the SMR (Paths 1, 2, 7, 8, 13 and 14 for DMW 1; Paths 3, 4, 9, 10, 15 and 16 for safe end; paths 5, 6, 11, 12, 17, and 18 for DMW2, in Figure 2) for the transients. Second, the times at which the maximum and minimum inside surface membrane-plusbending axial and hoop stresses during each transient listed in Table 3 are determined so that the worst through-wall thermal gradient stresses may be extracted for the bounding path.



Thermal gradient stresses for Hydro Test will be similar to the thermal gradient stresses for Transient 1A at 0 seconds. Thermal gradient stresses for Stratification will be similar to the thermal gradient stresses for Transient 1B at 0 seconds, since from Reference 5, it can be seen that stratification occurs at 555°F and 2242 psig, which are the same conditions as Transient 1B at 0 seconds.

To select the bounding path in the SMR, the time histories of the inside surface linearized membraneplus-bending stresses for each transient are plotted for axial and hoop stresses. A typical plot is shown in Figure 3 for axial and hoop stresses for the Heatup transient. The linearized membrane-plus-bending stresses and corresponding mapped stresses fitted with a third order polynomial are contained in files "TMI_STR_\$\$_P*_MAP.csv" ((\$\$ = event IDs 1 through 6 in Table 4 and * = 1 through 18). Figure 3 shows, for example, that Path 1 is used for the maximum axial stress and Path 2 for the minimum axial stress for the Heatup transient. Table 1 shows the bounding paths used at the SMR.

Once the bounding path for the SMR is determined, the times at which the maximum and minimum membrane-plus-bending axial and hoop stresses during each transient may now be determined. Note that although the inside surface linearized membrane-plus-bending axial and hoop stresses were used in selecting the critical times, the stress coefficients resulting from the through-wall mapped stresses at the critical times are total stresses. The resulting bounding thermal gradient stress coefficients due to the thermal transients at the times of maximum and minimum inside surface linearized membrane-plusbending stresses are shown in Table 1.

Residual Stresses

Residual axial and hoop stresses were extracted from the residual stress analysis [6] for six paths within the SMR. These paths from [6] are Paths 1 through 6, and correspond (approximately) to Paths 1 through 18 in Figure 2. Stresses were obtained from file "1000320-314.xls" of Reference 6. The resulting stresses were curve fit with a third order polynomial in this spreadsheet in worksheet "Path Data." The bounding (least compressive or most tensile stress) residual stress curve fits were determined for two paths of the SMR for DMW1, safe end and DMW2. These bounding residual stresses are used for the crack growth analysis. Residual stresses at 70°F are shown in Figure 4.

The bounding path for the axial and hoop stress for the six paths within the SMR can be determined either by calculating the K-vs-a curve via the "StressIntensityFactors1.xls",

"StressIntensityFactorsSE.xls", and "StressIntensityFactors2.xls" spreadsheets for DMW1, safe end and DMW2 SMR's respectively. The residual stress coefficients (at 70°F) for all six paths are input into the spreadsheet and the K-vs-a plotted. This comparison is shown in Figure 5, which shows that at 75% of the original wall thickness, Path 2 gives the worst K distribution for the axial flaw and circumferential flaw for DMW1 region; Path 3 gives the worst K distribution for the axial flaw and circumferential flaw for safe end region; Path 5 gives the worst K distribution for the axial flaw and circumferential flaw for DMW2 region. The Ks for these selected paths that give the worst Ks are considered representative for the entire PWSCC susceptible material.

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The resulting residual stress coefficients at 70°F and at steady state pressure (2155 psig) and temperature (650°F) are shown in Table 1.

3.4 Crack Growth Laws

3.4.1 Alloy 82/182 Fatigue Crack Growth Law

NUREG/CR-6907 [7] indicates that "The CGRs of Alloy 82/182 in the PWR environment are a factor \sim 5 higher than those of Alloy 600 in air under the same loading conditions." Thus the fatigue crack growth rate (FCGR) for the SMR used in this analysis is that for Alloy 600 in air (Equation (2) below) multiplied by 5. The FCGR for air obtained from NUREG/CR-6721 [8] is given by:

$$(da/dN)_{air} = C_{A600} (1-0.82R)^{-2.2} (\Delta K)^{4.1}$$
, units of m/cycle (2)

where:

 $\begin{array}{ll} C_{A600} &= 4.835 x 10^{-14} + 1.622 x 10^{-16} T - 1.49 \ x 10^{-18} T^2 + 4.355 \ x 10^{-21} T^3 \\ T &= temperature inside pipe, ^C \ (taken as the maximum during the transient) \\ R &= R - ratio = (K_{min}/K_{max}) \\ \Delta K &= K_{max} - K_{min} = range \ of \ stress \ intensity \ factor, \ Mpa-m^{0.5} \end{array}$

Note that Equation (2) in accordance with NUREG/CR-6907 is independent of rise time.

3.4.2 Alloy 82/182 PWSCC Growth Law

When appropriate PWSCC growth is computed using Equation (3) below. This is for Alloy 182 weld metal and obtained from Eq. 4.5 of MRP-115 [11, pgs 4-4 to 4-5 for US customary units].

$$\dot{a} = \exp\left[-\frac{Q_g}{R}\left(\frac{1}{T} - \frac{1}{T_{ref}}\right)\right] \alpha(K)^{\beta}$$
(3)

where:

$\dot{a} \equiv$	crack growth rate	in/hr
$Q_g =$	31	kcal/mole
R =	1.10E-03	kcal/mole-°R
T =	650	F
$T_{ref} =$	1076.67	R (617°F)
α =	2.47E-07	crack growth amplitude
K =	Stress intensity factor	ksi-in^0.5
β =	1.6	



3.4.3 Treatment of Negative Stress Intensity Factors

Because of the beneficial compressive residual stresses produced by the weld overlay, the stress intensity factors for many load cases are negative. This condition is handled as follows in the FCG analyses:

- For Alloy 600 and its weld metals (Alloy 82/Alloy 182), the crack growth law in Equation (2) above includes an R-ratio correction (1-0.82R)^{-2.2} that applies to both positive and negative R-ratios [7, 8]. For negative R-ratios, the factor is less than 1, yielding a corresponding decrease in crack growth rate when K_{min} is negative. Therefore, Equation (2) is used directly for crack growth in the SMR when K_{max} is greater than zero, for both positive and negative K_{min}. As noted, a factor of 5 [7] is applied for PWR environmental effects.
- 2. If both K_{max} and K_{min} in a load cycle are negative, zero fatigue crack growth is assumed. This is a reasonable assumption based on the work on compression fatigue crack growth (FCG for which K_{max} and K_{min} are negative) in Reference 10, in which it was shown that although FCG is present, the values of FCG are several orders of magnitude smaller than for FCG for which K_{max} and K_{min} are *not* negative.

4.0 ASSUMPTIONS

Basic assumptions for the analysis are listed below:

- Through-wall stresses are curve fitted with a third order polynomial. The use of the third order polynomial is limited by the crack model. In most cases the curve fit is more conservative than the actual plot (e.g., axial stress for Path 2 in Figure 4). The residual stresses provide enough compression in the steady state operating condition that any slight changes in the curve fit will have negligible effect on the overall crack growth.
- See Section 3.2 for assumed flaw models.
- See Section 3.4 for the crack growth laws and related assumptions.
- For FCG, there is no requirement to bound the load pairing between transients per the ASME Code Section XI [9]. Each thermal transient that was analyzed in the thermal and mechanical stress analysis calculation package [4] is analyzed sequentially per Table 4, and the cumulative effect of all transients is summed. In addition, incremental growth due to PWSCC (if active) is computed and added to incremental growth due to FCG. This approach is consistent with the ASME Code Section XI, C-3200.

5.0 CALCULATIONS

A Microsoft Excel VBA routine is implemented to calculate combined FCG and PWSCC growth. This combined FCG and PWSCC calculation is based on a yearly basis: one year of PWSCC followed by one year of FCG. Note that for more accuracy, crack growth may also be based on a monthly basis.



Combined FCG and PWSCC growth is calculated until the flaw depth reaches the interface of the base metal and overlay. The number of cycles and sequence of events for FCG are shown in Table 4 and are given for 60 years of operation. The PWSCC portion of the crack growth is only active if, during the growth of the flaw, the stress intensity factor at steady state normal operating conditions (NOC) is a positive value, which is in accordance with MRP-115 [11, page 4-2], which states that "there is insufficient data to justify a stress intensity factor threshold other than zero." The Ks from spreadsheet "StressIntensityFactors1.xls" are imported into spreadsheet "CG_SPRAY_DMW1.xls" to compute crack growth for DMW1; similarly, "StressIntensityFactors2.xls" are imported into spreadsheet "CG_SPRAY_DMW5.xls" and "StressIntensityFactors2.xls" are imported into spreadsheet "CG_SPRAY_DMW2.xls".

<u>FCG</u>

For FCG, the individual terms that constitute nominal K_{max} and K_{min} for the calculation of ΔK in Equations (2) and (4) are summarized in the tabulations below. The individual Ks for nominal K_{max} are combined (summed) with all appropriate scale factors applied. Similarly, the individual Ks for nominal K_{min} are combined (summed) with all appropriate scale factors applied. ΔK is computed by taking the difference of the resulting summed K_{max} and K_{min} . Note that $K_{residual}$ and $K_{dead weight}$ are constant loads.

K _{max}	K _{min}
K _{residual}	K _{residual}
K _{pressure}	K _{pressure}
K _{dead weight}	K _{dead weight}
Kthermal piping load-state 1	Kthermal piping load-state 2
Kthermal state 1	K _{thermal state 2}
K _{stratification state 1}	K _{stratification state 2}

Thermal K_{max} and K_{min} values of Transient 1A at time 0 seconds are used for Hydrostatic Test. Similarly thermal K_{max} and K_{min} values of Transient 1B at time 0 seconds are used for Stratification event. OBE is treated as a separate event that combines with the highest K value for the K_{max} side and the lowest K value for the K_{min} side for 660 cycles [5].

PWSCC

The K-vs-a curves for both circumferential and axial flaws at normal operating conditions (NOC) are calculated in the PWSCC worksheets of spreadsheet "CG_SPRAY_DMW1.xls" and shown in Figure 9 for DMW1; "CG_SPRAY_DMWSE.xls (Figure 10) for safe end; "CG_SPRAY_DMW2.xls" (Figure 11) for DMW2. The stresses at steady state NOC include internal pressure stresses (P = 2155 psig [5]), residual stresses (at 70°F), steady state thermal stresses at 650°F, and stresses due to the non-cyclic piping loads (including deadweight). Note that an additional 2155 psig [5] was added to the C₀ coefficients for the stresses labeled "Resid+press+temp" in Table 1 to account for crack face pressure.



This crack face pressure is only applicable for the PWSCC evaluation. For both axial and circumferential flaws, the models described in Section 3.2 were used to calculate the stress intensity factors, but with an aspect ratio of a/2c = 0.5 for the axial flaw.

PWSCC is a time dependent phenomenon and occurs at a sustained loading condition. Given that the great majority of plant operation is at normal steady state operating conditions (NOC), PWSCC is defined by stress conditions at NOC. The 75% initial crack is grown using the cyclical loadings described previously. At steps in the evaluation, the value of the crack tip K is continuously checked. If the K is less than zero no PWSCC is assumed for the next step of fatigue crack growth. If the crack tip K becomes greater than zero, then the PWSCC crack growth rate in Section 3.4.2 is used to calculate an incremental PWSCC crack growth, which is added to the total crack growth.

In this case the Ks at steady state NOC were negative for all flaw depths for both the circumferential and axial flaws except for axial flaw at safe end. Thus, PWSCC is not active for all flaw depths between 75% and 100% of the original base metal except for axial flaw at safe end.

6.0 **RESULTS AND CONCLUSIONS**

The crack growth results are shown in Table 5. At the susceptible material region, it takes greater than 60 years for an initial flaw of 75% of the original base metal thickness at the analyzed section to reach the overlay for the circumferential flaw and the axial flaw.

It was also shown that the Ks at steady state NOC were negative for all flaw depths for both the circumferential and axial flaws except for axial flaw at Safe End. Thus, PWSCC is not active for all flaw depths between 75% and 100% of the original base metal except for axial flaw at Safe End.

7.0 **REFERENCES**

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3. Hiroshi Tada, Paul C. Paris, and George R. Irwin, "The Stress Analysis of Cracks Handbook," Third Edition, ASME Press, 2000.

4. SI Calculation No. 1000320.313, "Pressurizer Spray Nozzle Thermal and Mechanical Stress Analysis Calculation," (for revision number refer to SI Project Revision Log, latest revision).

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8. NUREG/CR-6721, "Effects of Alloy Chemistry, Cold Work, and Water Chemistry on Corrosion Fatigue and Stress Corrosion Cracking of Nickel Alloys and Welds," U.S. Nuclear Regulatory Commission (Argonne National Laboratory), April 2001.

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11. Materials Reliability Program Report MRP-115, "Materials Reliability Program: Crack Growth Rates for Evaluating Primary Water Stress Corrosion Cracking (PWSCC) of Alloy 82, 182, and 132 Welds," September 2004.

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Transient/Load	Time	Path	A	xial Stress C	Coefficients,	psi	Time	Path	I	Ioop Stress	Coefficients,	psi
Name	(sec)	Used	C ₀	C	C ₂	C ₃	(sec)	Used	C ₀	C ₁	C ₂	C ₃
Unit Pressure ⁽¹⁾		2	1661.9	-67	500.4	-286.1		7	3341.9	-1912.3	1470.5	-557.3
Unit Axial	w. m.	2	66.7	7.6	-12.2	5.2		7	-0.3	2.1	-2.1	-0.2
Unit Moment		2	69					8	1.1	ar àr	0.3	-0.2
Resid70, Path 1		1	7465	-322363	548734.7	-200332	**	1	-67148	-228622	719933	-365302
Resid70, Path 2		2	-1861	-295011	657991	-304460	it in	2	-65863	-378679	1327293	-812842
Resid+press+temp, Path 1 ⁽²⁾		1	-18011	-92847	199113	-57561		1	-57281	-145167	552343	-293078
Resid+press+temp, Path 2 ⁽²⁾		2	-12593.2	-175063	461698.7	-222685		2	-51924.3	-319382	1159462	-723909
Transient1HIGH	10956	1	-4687.3	65569.9	-104067	40865.5	10908	8	7398.1	6794.9	-41470.2	22438.4
Transient1LOW	360	2	-534.6	2500.2	-3219.2	1271.2	360	2	-406	2169.1	-2812.2	1121.4
Transient2HIGH	21681	1	-1343.9	44385.2	-75139.5	29820.4	21681	2	7146.7	-227.6	-27767.3	16212.2
Transient2LOW	0	2	-11134.5	83554.2	-132163	56576.1	39600	1	313.8	7906.6	-15394.3	6399.7
Transient3HIGH	308.4	13	-19020.6	136265.1	-193031	74191.1	316.8	7	-1263.1	52219.8	-88485.8	35445.1
Transient3LOW	51.6	2	-14590.1	92995.3	-139203	58413	51.6	14	-2363.4	45917	-81903.7	36658.2
Transient4HIGH	99	13	-20370	139017.8	-194329	74416.1	99	7	-2863.1	56302.1	-91277.3	36191.1
Transient4LOW	773.4	2	-19096.1	105262.4	-148215	60734.5	773.4	14	-6886.5	60933	-94304.2	40207.8
Transient5HIGH	692	13	-20100.9	138753.1	-194619	74624.2	692	7	-2639.6	55655.4	-90812.1	36091.1
Transient5LOW	22	2	-13457.3	91128.6	-139137	58722.9	22	14	-1391.1	43795.9	-81671.6	36961.9
Transient6HIGH	900	13	-17173.7	126330	-180092	69353.5	915	8	3807.5	27050.5	-68106.9	33221.1
Transient6LOW	0	2	-11478	86207.3	-136460	58464.1	0	14	973	36027.9	-75495.6	35363.2

Table 1: Stress Coefficients for Various Loadings at the DMW1

(1) 1000 psig was added to the C_0 coefficient term of the Unit Pressure case to account for crack face pressure.

(2) 2155psig was conservatively added to the C_0 coefficient term of the residual stresses and normal operating pressure and temperature cases to account for crack face pressure. This is needed for calculating stress intensity factors at normal steady state operating conditions.

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Notes:



Transient/	Time	Path	A	xial Stress	Coefficients,	psi	Time	Path	H	loop Stress	Coefficients,	psi
Load Name	(sec)	Used	C ₀	Cı	C ₂	C ₃	(sec)	Used	C ₀	C ₁	C2	C ₃
Unit Pressure ⁽¹⁾		3	1815.7	-656.9	980.1	-494.2		4	3357	-1791.2	722.1	-117.8
Unit Axial		15	68.4	-4.5	7.1	-3.6		16	47.7	-88.3	45.1	-14.2
Unit Moment		10	71					16	1.1		0.3	64.9
Resid70, Path 3		3	-20214	-232640	624324	-317131	~~	3	-66326	21866	454429	-344296
Resid70, Path 4		4	-19821	-208347	559612	-294667		4	-51795	-305618	909433	-479645
Resid+press+temp, Path 3 ⁽²⁾		3	-8952.2	-207804	538416	-276023		3	-49674.4	33872.59	363978.6	-289718
Resid+press+temp, Path 4 ⁽²⁾	**	4	-12181.3	-152053	409736.6	-214737		4	-32756.2	-261646	753794.8	-392351
Transient1H1GH	10932	3	10594.2	-4386.8	-27209.4	16065.7	10932	16	13909.9	-14666	-15256.8	12242.7
Transient1LOW	360	16	-483.3	1344.6	-1169.3	401.5	360	16	-584.8	1926.6	-1865	655.7
Transient2HIGH	21654	16	12179.8	-9985.9	-19986.3	13406.9	21654	16	17218.4	-28839.8	404.4	6670.3
Transient2LOW	39600	4	938.4	3301.9	-9813.3	4835.5	39600	4	1639.1	1157.6	-7631.8	4167.2
Transient3H1GH	299.8	15	8189.6	5471.6	-38123.8	20063.8	286.5	10	13687.7	-9626.6	-21915.1	14826.6
Transient3LOW	31.8	16	-4149.4	26808.8	-38059	15537.5	31.8	16	-3511.5	31334.3	-46023.7	19138.3
Transient4HIGH	99	15	5257.6	12655	-42512.8	21052.7	99	10	9661.5	-587.5	-26310.4	15285.5
Transient4LOW	753.4	16	-11382.9	41376.2	-43413.1	15482.9	753.4	16	-12818.8	55509.2	-62616.4	23008.8
Transient5HIGH	712	15	5711.5	12030.5	-42473.7	21022.9	692	10	9633.6	-401.9	-26534.7	15349.2
Transient5LOW	19	10	-2065.5	27765.9	-47520.9	20240.8	20	16	149.9	26957.4	-48768	21438.3
Transient6HIGH	900	15	8475.2	5921.8	-40356.8	21325.4	900	10	12617.7	-6175.7	-26074.6	16461
Transient6LOW	0	10	4410.4	10815.8	-36157.4	17955.3	0	3	4456.3	15949.2	-48490.3	24342.3

Table 1: Stress Coefficients for Various Loadings at the Safe End (continued)

Notes:

(1) 1000 psig was added to the C₀ coefficient term of the Unit Pressure case to account for crack face pressure.

(2) 2155psig was conservatively added to the C_0 coefficient term of the residual stresses and normal operating pressure and temperature cases to account for crack face pressure. This is needed for calculating stress intensity factors at normal steady state operating conditions.

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Transient/ Load Name	Time (sec)	Path Used	Axial Stress Coefficients, psi				Time	Path	Hoop Stress Coefficients, psi			
			C ₀	C ₁	C ₂	C ₃	(sec)	Used	C ₀	C ₁	C ₂	C3
Unit Pressure ⁽¹⁾	~	5	2414.7	-316.1	-1777	1511.8		18	3739.4	-2153.5	1223.9	-400.9
Unit Axial		6	96	24.4	-107.6	103.7		18	82.4	-164.8	93.5	-40.2
Unit Moment		12	95					18	1.1		0.3	85.6
Resid70, Path 5		5	-9408.89	-342880	1142648	-802714		5	-50760.7	-504408	2185410	-1729247
Resid70, Path 6		6	6829.818	-462574	1215647	-751711		6	-48229.1	-416755	1560161	-1064928
Resid+press+temp, Path 5 ⁽²⁾		5	-17922.2	-160572	689345.1	-513050		5	-32677.3	-405929	1803947	-1442403
Resid+press+temp, Path 6 ⁽²⁾		6	-9071.46	-272521	848615.8	-545389		6	-32883.7	-290259	1194809	-826460
Transient1HIGH	10908	5	532.8	37006.3	-95231.6	54415.2	10884	12	9500.6	6657.8	-46437.5	28134.2
TransientILOW	28092	6	-16624.3	80523.4	-85666	26101.5	360	6	-377.9	1693.6	-2209	1147.3
Transient2HIGH	21654	5	7208.5	4916.6	-52212.9	35713.8	21654	12	13225.1	-14969.4	-19240.2	17075.7
Transient2LOW	0	6	-15574.7	78097.9	-84573.7	26002.9	39600	6	1377	-105.8	-7547.3	6160
Transient3HIGH	282	5	-7508.8	81611.5	-159843.2	82195.8	282	12	8305.9	29280.1	-78884.1	41625.7
Transient3LOW	18.6	6	-25293	107206.1	-105607.3	30333.5	18.6	6	-3084.1	8844.3	-2051.7	4800.2
Transient4HIGH	64.5	5	-10314.3	88758.5	-162540.2	81514.5	64.5	12	5128.9	37375.3	-82733.5	41781.5
Transient4LOW	743.4	6	-32923.5	129912.5	-123085.4	35037.3	743.4	6	-10435.1	31226.1	-17714.2	8606.7
Transient5HIGH	672	5	-10516.9	90022	-164417.3	82304.6	652	12	4883.7	38531.1	-84252	42366.4
Transient5LOW	18	6	-22172	100807.1	-105732.4	32555.4	19	6	521.6	-533.1	2008.5	4964.7
Transient6HIGH	900	5	-6493.5	76835.8	-154357	80489.8	900	12	7576	28710.8	-77505.3	41178.8
Transient6LOW	0	6	-15834.2	80348.1	-88159.6	27599.2	0	6	7433.8	-23141.1	19870.1	760.1

Table 1: Stress Coefficients for Various Loadings at the DMW2 (continued)

Notes:

(1) 1000 psig was added to the C_0 coefficient term of the Unit Pressure case to account for crack face pressure.

(2) 2155psig was conservatively added to the C_0 coefficient term of the residual stresses and normal operating pressure and temperature cases to account for crack face pressure. This is needed for calculating stress intensity factors at normal steady state operating conditions.

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		Forces, l	b	Moments, lb-in		
Load Case	Fx	Fy	Fz	Mx	My	Mz
Deadweight	3	14	13	252	1222	781
OBE	422	629	493	10932	20102	15723
Thermal	6	4	11	6468	704	348
Maximum Stratification Moment				Range = $173,263$ lb-in ⁽³⁾		

Table 2: Spray Nozzle Piping Interface Loads

Notes: 1) Transformed forces and moments are listed on an absolute basis.

2) F_y is oriented in the axial direction of the nozzle.

3) The number of cycles is 7200 per [5].

				h, Btu/h	r-ft ² -°F			
	rinite		an on	Under	F1	P _{spray} ,	G 1.	IC (
Fransient	Time, sec	T_{PZR} , °F	T _{spray} , °F	TS	Elsewhere	psig	Cycles	Factor
1A	0	70	70	173	1378	0	240	N/A
	10800	370	370	173	1378	159		1.000
	10800	370	70	22	21	216		1.000
	12240	410	110	26	26	319		0.082
	12240	410	110	141	427	319		0.082
	27432	650	532	160	739	2242		0.953
	27432	650	532	183	2149	2242		0.953
	28092	650	555	182	2123	2242		1.000
1B	0	650	555	179	1663	2242	240	1.000
	10800	430	300	177	1540	216		0.474
	21600	400	280	177	1484	216		0.433
	21600	400	210	152	578	159		0.289
	25920	330	150	147	494	15		0.165
	36000	200	125	141	427	0		0.113
7/8C/11	0	650	544	41	44	2242	65938	0.977
(bounds	0	650	566	182	2111	2242		1.023
2A, 3, 4,	4	682	586	182	2088	2792		1.064
6, 7, 8C,	12	682	590	182	2084	2792		1.072
10, 11,	144	682	590	182	2084	2792		1.072
14, and	144	639	575	182	2101	2092		1.041
20B)	192	633	562	182	2116	1997		1.014
	282	625	546	183	2134	1897		0.981
	372	616	540	183	2140	1777		0.969
8A/15	0	650	555	182	2123	2242	80	1.000
	8	662	570	174	1261	2442		1.031
	12	662	570	174	1261	2442		1.031
	20	650	555	164	844	2242		1.000
	30	632	550	154	612	1992		0.990
	720	643	550	154	612	1992		0.990
	720	643	636	173	1405	2142		1.167
		643	636	173	1405	2142		1.167
8B	0	650	544	183	2136	2242	180	0.977
(also	1	651	544	183	2136	2260		0.977
bounds	4	654	562	182	2116	2312		1.014
17A)	6	657	564	182	2113	2348		1.019
	10	661	560	182	2118	2419		1.010
	15	666	576	182	2100	2507		1.043
	22	653	568	182	2109	2297		1.027
	22	653	568	41	44	2297		1.027
	600	616	558	41	44	1757		1.006
	612	616	535	41	45	1757		0.959
9	0	650	580	182	2006	2242	1480	1.052
(also	900	519	500	182	2093	842		0.887
bounds 2B)	1200	515	490	182	2088	822		0.866
12			70			0	20	N/A
			70			3125		N/A

Table 3: Bounding Thermal Transients for the Spray Nozzle

Note: The above table is reproduced from Reference 5.

Events	Event ID	60-yr Cycles	No. of peak/valley pairs
Transient 1 (Heatup)	1	240	1
Transient 2 (Cooldown)	2	240	1
Transient 3 (Step load reduction)	3	65938	1
Transient 4 (Reactor Trip with Loss of Flow/Loss of Station Power)	4	80	1
Transient 5 (Reactor Trip Due to High Reactor Temperature)	5	180	1
Transient 6 (Rapid Depressurization)	6	1480	1
Transient 7 (Hydro test)	7	20	1
Stratification Moment	8	7200	1
OBE	9	660	1

Table 4: Sequence of Events and Cycles for Fatigue Crack Growth

Flaw ⁽¹⁾	Time to Reach Overlay	Flaw Depth By Fatigue and PWSCC at 60 years		
Circumferential Flaw at DMW1	>60	0.5625"		
Axial Flaw at DMW1	>60	0.5625"		
Circumferential Flaw at Safe End	>60	0.5367"		
Axial Flaw at Safe End	>60	0.5367"		
Circumferential Flaw at DMW2	>60	0.3124"		
Axial Flaw at DMW2	>60	0.3124"		

Notes:

(1) Initial flaw depth = 75% of original base metal thickness at the section analyzed = 0.563" for DMW1; 0.537" for Safe End; 0.313" for DMW2.



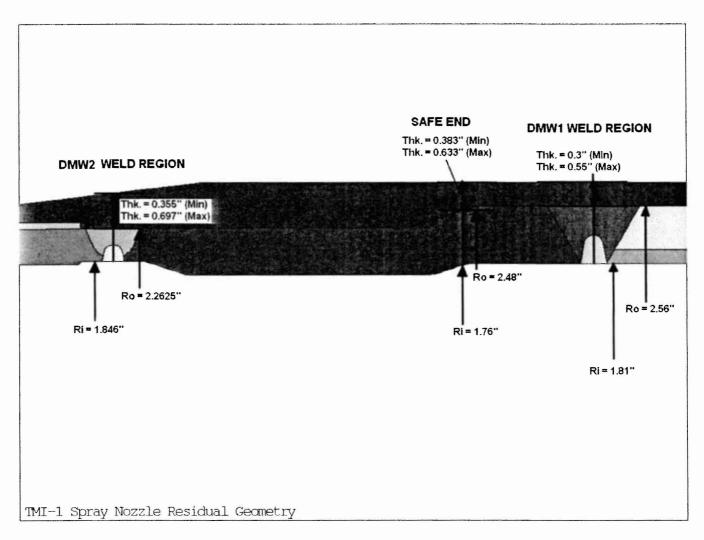
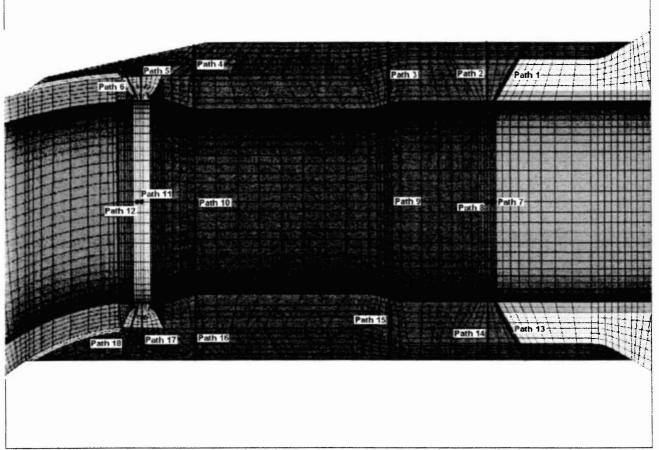
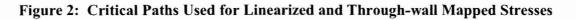


Figure 1: FEM Section Geometries Used For Crack Growth





Note: Only the model with minimum overlay dimensions is shown. The path numbering for the model with maximum overlay dimensions is similar.



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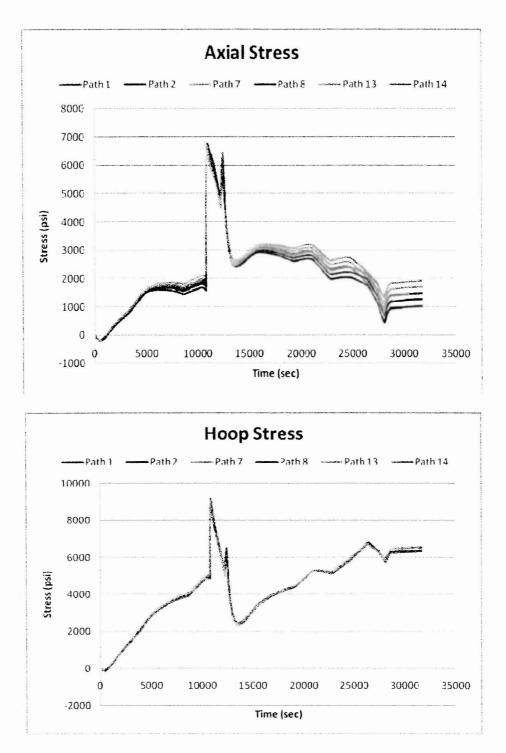


Figure 3: Time Histories of Linearized M + B Stress at the Inside Surface for Heatup Transient for DMW1



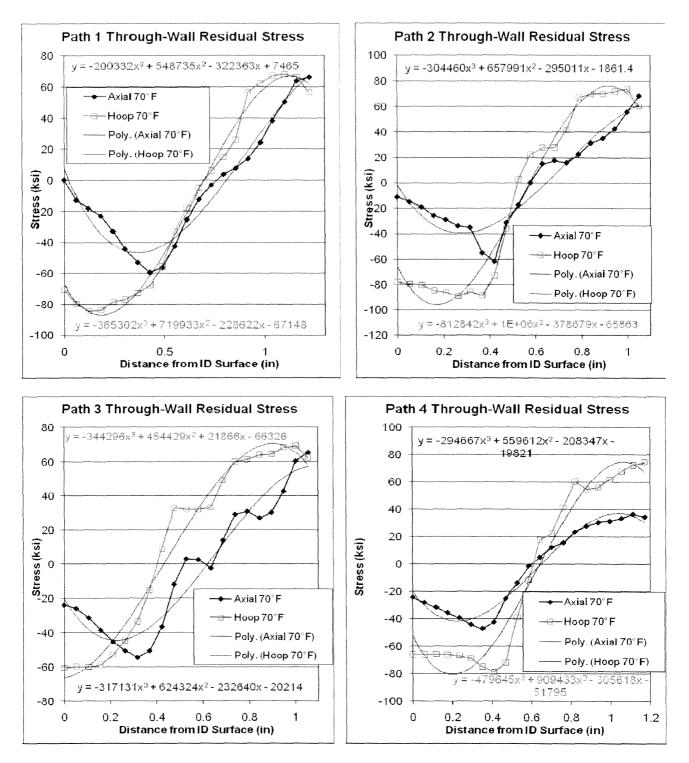
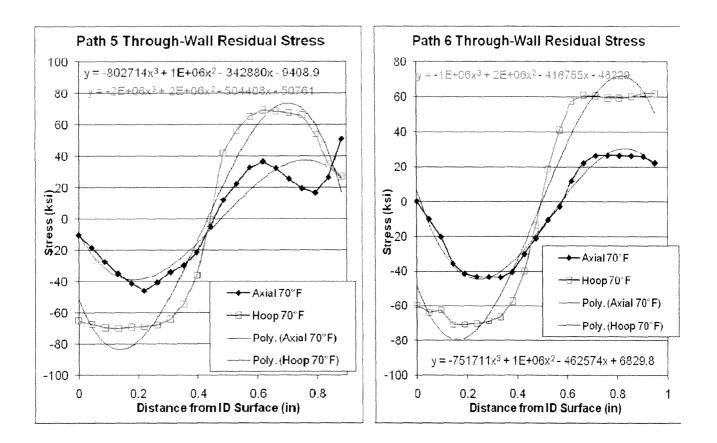


Figure 4: Through-wall Residual Stress Distribution at 70°F and Curve Fits Note: Minimum overlay wall thickness is used to calculate residual stresses.

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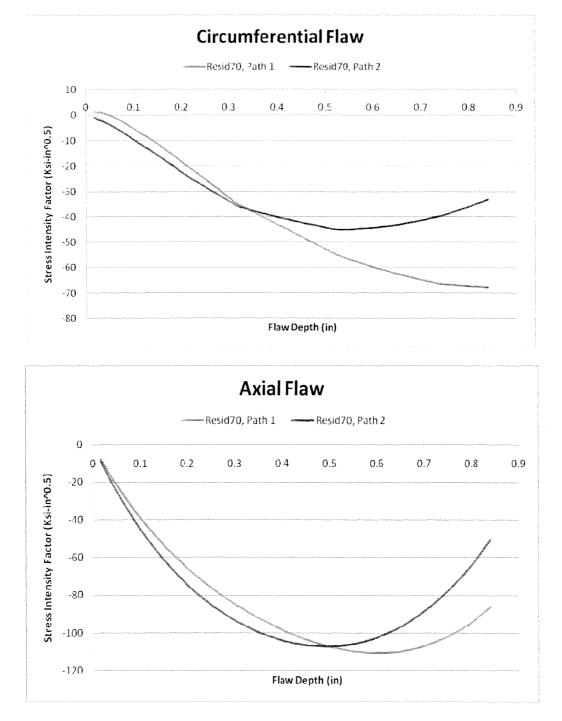


Figure 5: K-vs-a Plots for Paths 1 and 2 at DMW1 for Residual Stresses at 70°F Note: Minimum overlay wall thickness is used to calculate residual stresses.

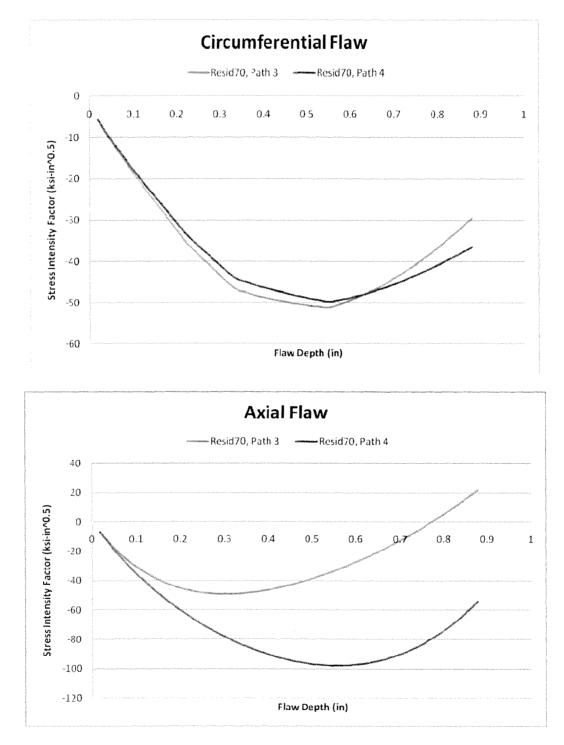


Figure 5: K-vs-a Plots for Paths 3 and 4 at Safe End for Residual Stresses at 70°F (cont'd.) Note: Minimum overlay wall thickness is used to calculate residual stresses.

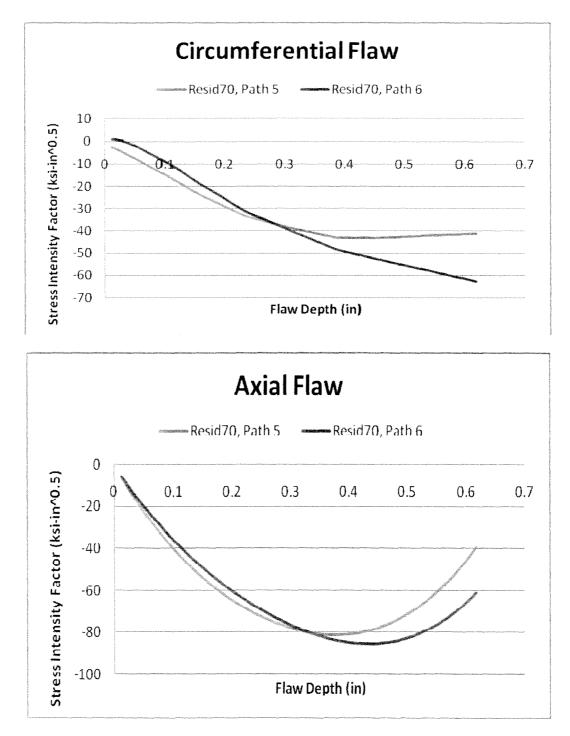
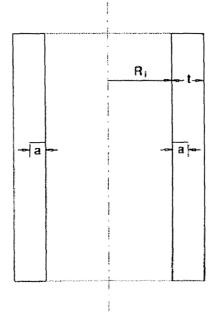


Figure 5: K-vs-a Plots for Paths 5 and 6 at DMW2 for Residual Stresses at 70°F (cont'd.) Note: Minimum overlay wall thickness is used to calculate residual stresses.

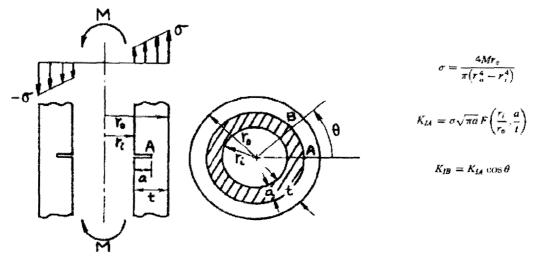




Source: Reference 2 (Zahoor model, $1 \le R_i/t \le 10$)

Figure 6: Circumferential Flaw Model, Under Arbitrary Through-Wall Stress Distribution





Source: Reference 3

"F" is defined below (also from Reference 3)

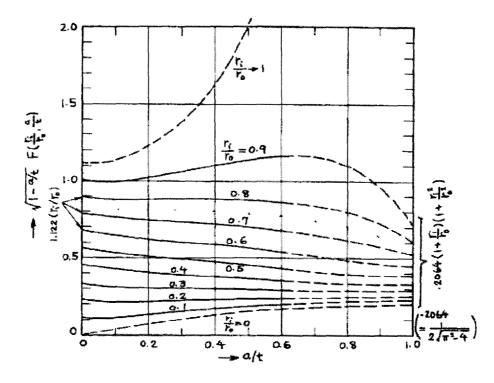
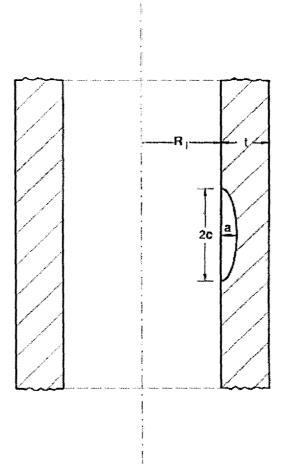


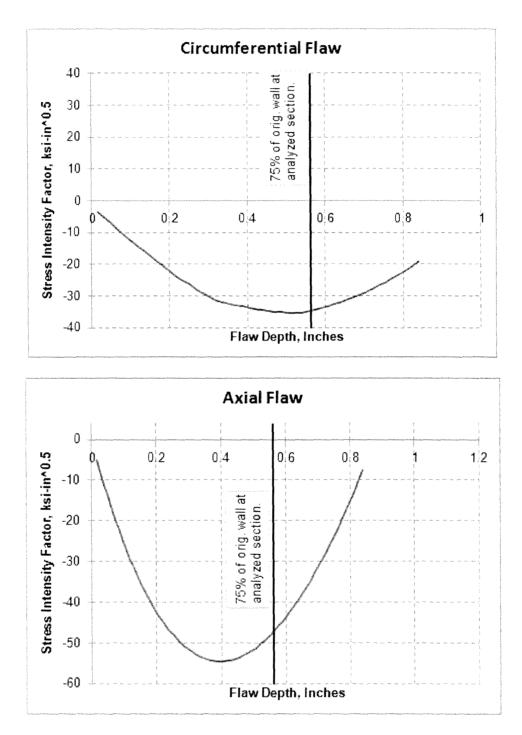
Figure 7: Circumferential Flaw Model, Moment Loading





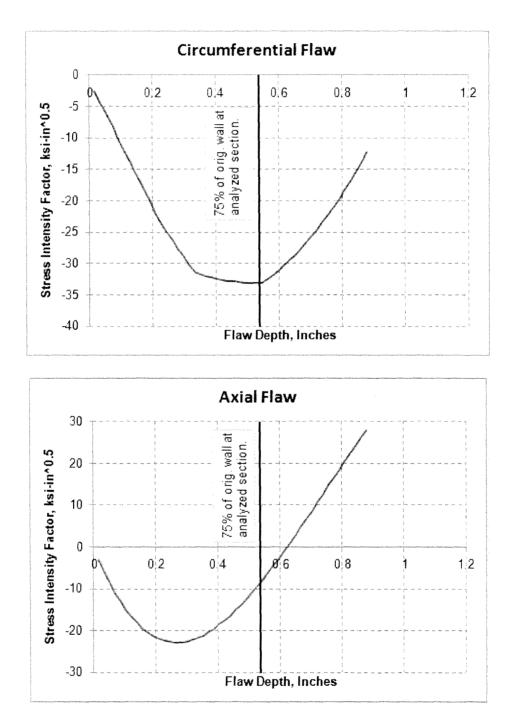
Source: Reference 2 (Zahoor model, $1 \le R_i/t \le 10$)





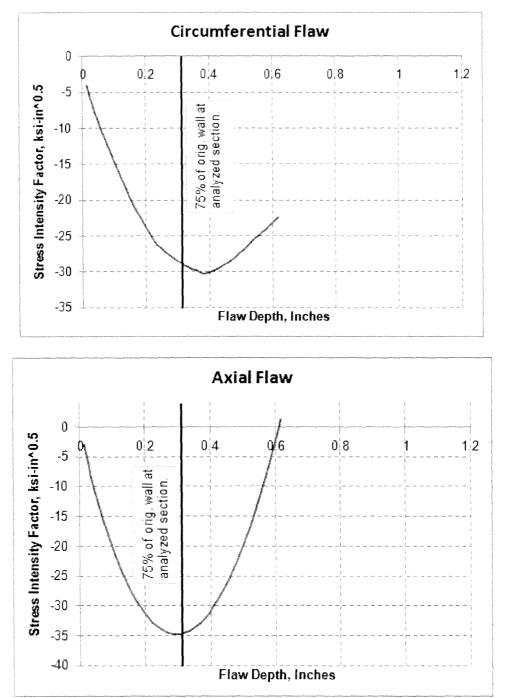
Note: Initial flaw depth = 75% of original base metal thickness at the analyzed section = 0.5625"

Figure 9: K-vs-a at Normal Steady State Operating Conditions for DMW1



Note: Initial flaw depth = 75% of original base metal thickness at the analyzed section = 0.5367"





Note: Initial flaw depth = 75% of original base metal thickness at the analyzed section = 0.3124"

Figure 11: K-vs-a at Normal Steady State Operating Conditions for DMW2



APPENDIX A

COMPUTER FILE DESCRIPTIONS

Page A-1 of A-3

F0306-01R1



Stress Output

Filename	Description		
TMI_STR_\$_P*_MAP.CSV	Linearized stresses and mapped through-wall stresses for transient \$ and path * * = path no. = 1 through 18 (Figure 2); \$ = 1A, 1B, 7_8C_11, 8A_15, 8B, and 9		
TMI_PR_P*_MAP.OUT (CSV file version also included)	Through-wall stresses for unit pressure run for path * where * = path no. = 1 through 18 (Figure 2)		
TMI_AXIAL_P*_MAP.OUT (CSV file version also included)	Through-wall stresses for unit axial load run for path * where * = path no. = 1 through 18 (Figure 2)		
TMI_MOM\$_P*_MAP.OUT (CSV file version also included)	Through-wall stresses for unit moment load run for path * where * = path no. = 1 through 18 (Figure 2); \$ = X and Z.		

Spreadsheets

Filename	Description
StressIntensityFactors\$.xls	Spreadsheets that contain Microsoft Visual Basic macros for calculating stress intensity factors at the susceptible material regions DMW1, Safe End and DMW2, where \$ = 1, SE, and 2.
TMI_Spray_ThermMechStressCoeff_DMW\$.xlsm	Spreadsheets that contain extraction of linearized stresses; source of Table 1. Where, \$ = 1, SE, and 2
TableOfCoefficients.xls	Spreadsheet that contains stress coefficients for thermal transient stresses at the SMR; used as input to "StressIntensityFactors\$" spreadsheets, where \$ = 1, SE, and 2.
1000320-314.xls	Spreadsheet that contains through-wall residual stresses from Reference 6.
CG_SPRAY_DMW\$.xls	Spreadsheet calculation of crack growth at the susceptible material regions for the circumferential and axial flaws at DMW1, Safe End and DMW2, where \$ = 1, SE, and 2.

ATTACHMENT 5

Non-Proprietary Version

Calculation No. 1000320.310 and Calculation No. 1000320.314

C Sin	uctural intec	rity Associates	File No.: 1000320.310				
		ON PACKAG		Project No.: 1000320 Quality Program: X Nuclear Commercial			
PROJECT 1 TMI Pressur	NAME: izer Spray Nozz	le WOL					
CONTRAC 59091	T NO.:		*******				
CLIENT: Welding Ser	vices Inc. (WSI))	PLANT: Three M	: ile Island Nuclear Gener	ating Station, Unit 1		
	FION TITLE: Spray Nozzle Wo	eld Overlay Sizing C	l Calculation				
Document Revision	Affected Pages	Revision Descri	ption	Project Manager Approval Signature & Date	Preparer(s) & Checker(s) Signatures & Date		
0	1 - 18	Initial Issue		R. L. Bax RLB 03/11/11	Nadel Schlegh N. Sadeghi NS 03/10/11 Amanda A. Alleshwaram AA 03/10/11		

Structural integrity Associates, Inc.*

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1.0 INTRODUCTION

A weld overlay repair is being designed for the 4" nominal diameter pressurizer spray nozzle-to-safe end dissimilar metal weld (DMW1) and the safe end-to-elbow dissimilar metal weld (DMW2) at Three Mile Island Nuclear Generating Station, Unit 1 (TMI-1). This calculation documents the required structural sizing calculations for a full structural weld overlay (FSWOL) repair of these welds, based on plant-specific geometry and loadings, and the design requirements of ASME Code, Section XI, Code Cases N-504-3 [4] and N-638-1 [5] (Note: A relief request will be prepared to allow the use of these two Code Cases).

2.0 DESCRIPTION OF CONFIGURATION AND REPAIR PROCESS



The FSWOL repair will be performed using primary water stress corrosion cracking (PWSCC) resistant Alloy 52M material deposited around the circumference of the configuration. The overlay material will be deposited using the machine gas tungsten arc welding (GTAW) process. For the Alloy 52M weld overlay filler metal, the selected material is SB-166, Rod & Bar [3], corresponding to Alloy 690 (58Ni-29Cr-9Fe).

3.0 ASME CODE CRITERIA

The applicable ASME Code of repair and replacement for TMI-1 is the 2004 Edition of ASME Code, Section XI [1] per Reference 6. The basis for FSWOL sizing is the ASME Code, Section XI, Code Case N-504-3 [4] and the ASME Code, Section XI, Division 1, Class 1 [1] rules for allowable flaw sizes in austenitic and ferritic piping (IWB-3640). The ASME Code, Section XI, Code Case N-504-3 [4], and the temper bead welding approach documented in Code Case N-638-1 [5], are used herein and are applied to dissimilar metal welds using nickel alloy filler, Alloy 52M. To determine the overlay thickness, Code Case N-504-3 refers to the requirements of ASME Code, Section XI, IWB-3640. IWB-3640 of the 2004 edition of the Code refers to Appendix C, which contains the specific methodology for meeting the allowable flaw sizes. The overlays are to be applied using the GTAW process, which is a non-flux process. Therefore, for circumferential flaws, the source equations in Reference 1, Appendix C, Section C-5320 (limit load criteria) are the controlling allowable flaw size equations for combined loading (membrane plus bending) and membrane-only loading. These equations are valid for flaw depth-tothickness ratios for flaw lengths ranging from 0 to 100% of the circumference as defined in Reference 1, Structural Integrity Associates, Inc.

Section C-5320 of Appendix C. For purposes of designing the overlay, a circumferential flaw is assumed to be 100% through the original wall thickness for the entire circumference of the item being overlaid.

The overlay is sized by using the source equations in Section C-5320 [1].

The allowable bending stress under combined membrane plus bending loads is given by the equation:

 $S_{c} = \frac{\sigma_{b}^{c}}{SF_{b}} - \sigma_{m} \left[1 - \frac{1}{SF_{m}} \right]$ Reference 1, C-5321,

where,

$$\sigma_b^c = \frac{2\sigma_f}{\pi} \left(2 - \frac{a}{t} \right) \sin \beta, \text{ for } (\theta + \beta) > \pi,$$
$$\beta = \frac{\pi}{2 - \frac{a}{t}} \left(1 - \frac{a}{t} - \frac{\sigma_m}{\sigma_f} \right).$$

The allowable membrane stress is given by the equation:

Reference 1, C-5322,

where,

$$\sigma_m^c = \sigma_t \left[1 - \left(\frac{a}{t}\right) \left(\frac{\theta}{\pi}\right) - \frac{2\varphi}{\pi} \right],$$

 $S_{i} = \frac{\sigma_{m}^{c}}{SF_{m}}$

$$\varphi = \arcsin\left[0.5\left(\frac{a}{t}\right)\sin\theta\right],\,$$

and

- S_c = allowable bending stress for a circumferentially flawed pipe $\sigma^{c}{}_{b}$ bending stress at incipient plastic collapse === SF_m safety factor for membrane stress based on Service Level as shown in Table 1 [1, C-2621] :20 SF_h safety factor for bending stress based on Service Level as shown in Table 1 [1, C-2621] = flaw depth a *** total wall thickness (includes overlay thickness, in this case) t S_{t} allowable membrane stress for a circumferentially flawed pipe -----
- $\sigma_m^c =$ membrane stress at incipient plastic collapse
- θ = half flaw angle [1, Figure C-4310-1], 180° or π for a 100% full circumferential flaw
- β = angle to neutral axis of flawed pipe in radians



- σ_m = unintensified primary membrane stress at the flaw location
- σ_f = flow stress = $(S_v + S_u)/2$ [1, C-8200(a)]
- S_v = specified value for material yield strength taken at the evaluation (operating) temperature from Reference 3
- S_{μ} = specified value for material ultimate strength taken at the evaluation (operating) temperature from Reference 3

Safety factors are provided in Appendix C of Section XI for evaluation of flaws in austenitic stainless steel piping. The safety factors used for the weld overlay sizing are shown in Table 1 and are taken from C-2621 [1].

Service Level	Membrane Stress Safety Factor, SF _m	Bending Stress Safety Factor, SF _b
A	2.7	2.3
В	2.4	2.0
С	1.8	1.6
D	1.3	1.4

Table 1: Safety Factors for Sizing - Circumferential Flaw

The overlay thickness must be established so that the flaw assumption herein meets the allowable flaw depth-to-thickness ratio requirement of the source equations [1, C-5320], for the thickness of the weld-overlaid item, considering combined primary membrane-plus-bending stresses and membrane-only stresses, per the source equations defined previously. Since the weld overlay is an austenitic material and applied with a non-flux welding process, which has high fracture toughness, the limit load failure mode is applicable [1, Figure C-4210-1 for non-flux welds] and hence, limit load evaluation techniques are used here.

The non-overlaid piping stresses for use in the equations are usually obtained from the applicable stress reports for the items to be overlaid. However, in this calculation, they are calculated based on forces and moments at the welds using equations from C-2500 of Section XI, Appendix C as described below.

Primary membrane stress (σ_m) is given by:

 $\sigma_m = pD/(4t)$, where:

- p = operating pressure for the Service Level being considered
- D = outside diameter of the component including the overlay
- *t* = thickness, consistent with the location at which the outside diameter is taken including the overlay (note that the inside diameter (ID) cladding is not counted toward wall thickness)



Primary bending stress (σ_b) is given by:

 $\sigma_b = DM_b/(2I)$, where:

- D = outside diameter of the component including the overlay
- d = inside diameter, consistent with the point at which the outside diameter is taken (note that the ID cladding is not counted in the inside diameter)
- M_b = resultant moment for the appropriate primary load combination for each Service Level (square root of the sum of the squares (SRSS) of three moment components in X, Y, and Z directions)
- I = moment of inertia, $(\pi/64) (D^4 d^4)$

The contribution of axial and shear forces to piping stress (other than force couples contributing to moments) is not included based on C-2500 of Section XI, Appendix C [1].

The following load combinations are used for the full structural weld overlay.

Service Level A (Normal):	Pressure (P) + Deadweight (DW)
Service Level B (Upset):	P + DW + Operational Basis Earthquake (OBE)
Service Level C (Emergency):	P + DW + Safe Shutdown Earthquake (SSE)
Service Level D (Faulted):	P + DW + SSE

Service Levels A, B, C, and D in the ASME Code [1] are alternatively referred as Normal, Upset, Emergency, and Faulted conditions, respectively, in this evaluation. Per ASME Code, Section XI C-5311 for the Combined Loading case, test conditions shall be included with the Service Level B Load Combination. However, the hydrostatic pressure test is not applicable to the weld overlay repair and is not included in the FSWOL design.

The weld overlay sizing is an iterative process, in which the allowable stresses are calculated and then compared to the stresses in the overlaid component. If the stresses in the component are larger than the allowable stresses in the component then the overlay thickness is increased, and the process is repeated until it converges to an overlay thickness which meets the allowable stresses.

The thickness of the weld overlay is determined through an iterative process. The thickness of the overlay (t_{ol}) is assumed resulting in a total thickness of $(t_p + t_{ol})$ where t_p is the original pipe thickness. The applied flaw size-to-thickness ratio based on a FSWOL (flawed through the original pipe wall thickness, t_p) is $t_p/(t_p + t_{ol})$. The allowable stresses are then determined from the source equations (see the beginning of Section 3.0). If this allowable stress value is greater than the calculated stress for the overlaid component, the overlay thickness (t_{ol}) is reduced. On the other hand, if the allowable stress value is less than the calculated stress for the overlaid component, the overlay thickness (t_{ol}) is reduced. The overlay thickness (t_{ol}) is increased. The process is repeated until the assumed overlay thickness results in a stress ratio of the calculated

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stress to the allowable stress that is equal or less than 1.0. As the maximum allowed value for a/t is 0.75 [1, C-5320], t_{ol} is initially set as $t_p/3$. If the overlay thickness of $t_p/3$ meets the allowable stresses for pure membrane and combined membrane plus bending stresses, then no more iterations are performed. If the allowable stresses are not met, then the overlay thickness is increased until the ratio of the computed stress to the allowable stress is less than or equal to 1.0.

In this process, the allowable stresses and adjusted stresses due to overlay thickness iterations are calculated for all applicable Service Levels (A, B, C, and D) and compared. The service level with the maximum ratio of the calculated stress to the allowable stress will control the overlay thickness.

The axial length and end slope of the FSWOL are sized to be sufficient to provide for load redistribution (considering both axial force due to pressure and bending loads) from the overlaid component to the weld overlay and back, such that applicable stress limits of the ASME Code, Section III, NB-3200 [2] are satisfied. Shear stress calculations are performed to assure that the weld overlay length meets these requirements.

4.0 LOADS AND DESIGN INPUTS



nozzle-to-safe end weld, the forces and moments must be transformed such that the revised coordinate system is aligned with the nozzle axis. After the transformation performed in the spreadsheet TMI.xlsx, the loads are in a local coordinate system with local-y axial to the nozzle. See Table 2 for the transformed results.

Tables 2 and 3 do not include forces and moments due to thermal expansion of the piping attached to the nozzle. For designing FSWOLs, only primary loads are considered and the secondary loads, such as thermal expansion, need not be included in the design calculations. For the transformed result, all forces and moments are taken on an absolute basis. That is, in Table 2 (Post-Transformation), all forces and moments are taken as positive.

The loads shown in Table 2 are assumed to be applied at the safe end-to-elbow weld. These moments are adjusted for the nozzle-to-safe end weld to account for the eccentricity between the shear forces (transformed F_y and F_z) at the safe end-to-elbow weld and the nozzle-to-safe end weld centerlines.

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Table 2: Specified Forces and Moments at the Safe End-to-Elbow Weld Location



	For	Forces and Moments, Nozzle-to-Safe End Weld (DMW1)(1)(2)						Forces and Moments, Safe End-to-Elbow Weld (DMW2)						
	Fx (lbs)	Fy (lbs)	Fz (lbs)	Mx (in-lbs)	My (in-lbs)	Mz (in-lbs)	MRSS (in-lbs)	F.x (lbs)	Fy (lbs)	Fz (lbs)	Mx (in-lbs)	My (in-lbs)	Mz (in-lbs)	MRSS (in-lbs)
DW	3	14	13	347	1222	803		3	14	13	252	1222	781	
OBE	422	629	493	14628	20102	18888		422	629	493	10932	20102	15723	
SSE	844	1257	986	29257	40203	37776		844	1257	986	21864	40203	31446	
Service Level A (Normal)	3	14	13	347	1,222	803	1,503	3	14	13	252	1,222	781	1,472
Service Level B (Upset)	425	643	506	14,976	21,324	19,691	32,661	425	643	506	11,184	21,324	16,504	29,192
Service Level C (Emergency)	847	1,271	998	29,604	41,425	38,580	63,881	847	1,271	998	22,116	41,425	32,227	56,954
Service Level D (Faulted)	847	1,271	998	29,604	41,425	38,580	63,881	847	1,271	998	22,116	41,425	32,227	56,954

Table 3: Forces and Moments at Weld Locations

Notes: 1) 2)

The nozzle-to-safe end weld moments account for the eccentricity of 7.5" between the centerlines of DMW1 and DMW2. Forces at the nozzle-to-safe end weld are assumed equivalent to the forces at the safe end-to-clbow weld.

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5.0 WELD OVERLAY THICKNESS SIZING

The normal operating pressure [6], **and the end of** and overlay thickness are shown in Table 4. At the nozzle side of the DMW1, Location 1B includes the thickness of the nozzle plus the thickness of the ID cladding, while Location 1A considers only the thickness of the nozzle (excluding the thickness of the ID cladding) (see Figure 1). An initial a/t value of 0.75 (the limiting value as stated in C-5322 of Appendix C of Section XI [1]) was the initial input to the iteration. The assumed 360° flaw results in a flaw length to circumference ratio of 1.0. Figure 1 shows the locations for FSWOL sizing.

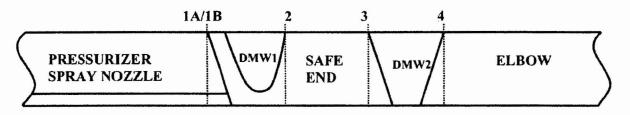


Figure 1:	Locations	Examined	for	FSWOL Sizing	
-----------	-----------	----------	-----	---------------------	--

Location 1ALocation 1BLocation 2Location 3Location 4Nozzle SideNozzle SideSafe EndSafe EndElbowof DMW1of DMW1Side ofSide ofSide ofw/o Cladw/ CladDMW1DMW2DMW2p, psig ⁽⁵⁾ 2155215521552155t0.5630.7500.7500.4350.404
of DMW1 w/o Cladof DMW1 w/ CladSide of DMW1Side of DMW2Side of DMW2p, psig ⁽⁵⁾ 21552155215521552155
w/o Clad w/ Clad DMW1 DMW2 DMW2 p, psig ⁽⁵⁾ 2155 2155 2155 2155 2155
p, psig ⁽⁵⁾ 2155 2155 2155 2155 2155
t. in 0.563 0.750 0.750 0.435 0.404
t. in 0.563 0.750 0.750 0.435 0.404
CDasco III
a/t 0.748 0.750 0.750 0.744 0.743
t _{ol} , in 0.19 0.25 0.25 0.15 0.14
t _{base-ols} in 0.753 1.000 1.000 0.585 0.544
D _{al} , in 5.505 5.625 5.625 4.863 4.780
Ibusctols in ⁴ 32.515 40.667 40.667 18.321 16.506

Table 4: Dimensions for Overlay Sizing

(5) Normal operating pressure of 2155 psig [6] is used.

The final calculated membrane stresses (σ_m) and bending stresses (σ_b) at each service level for the pipe + overlay configuration are shown in Table 5. This table also shows the ratio of the membrane stress (σ_m)



to the flow stress (σ_f) at the selected locations. The material properties are evaluated at the normal operating temperature of 650° F [6] using Section II, Part D of the ASME Code [3].

		Location IA	Location 1B	Location 2	Location 3	Location 4
		Nozzle Side of DMW1 w/o Clad	Nozzle Side of DMW1 w/ Clad	Safe End Side of DMW1	Safe End Side of DMW2	Elbow Side of DMW2
Service Level	σ _m , psi	3941	3030	3030	4476	4734
	S _v , psi	27,500	27,500	27,500	27,500	27,500
	S _u , psi	80,000	80,000	80,000	80,000	80,000
	σ ₆ psi	53,750	53,750	53,750	53,750	53,750
	σ_m/σ_f	0.0733	0.0564	0.0564	0.0833	0.0881
A	Normal σ_b , psi	127	104	104	195	213
В	Upset σ _b , psi	2765	2259	2259	3874	4227
С	Emergency o _b , psi	5408	4418	4418	7558	8247
D	Faulted σ_b , psi	5408	4418	4418	7558	8247

 Table 5: Calculated Stresses

Table 6 shows the allowable stresses as determined from the source equations discussed in Section 3.0. The membrane and bending stresses from Table 5 are compared to the allowable stresses as shown by the ratios in Table 6. The limiting cases for the membrane and bending stresses are shown in bold. In the limit load analyses, the flow stress of the Alloy 52M weld overlay material is used, consistent with the assumption of a full 360° flaw through the original pipe wall for the design of the full structural weld overlay.

		Location 1A	Location 1B	Location 2	Location 3	Location 4
Service Level		Nozzle Side of DMW1 w/o Clad	Nozzle Side of DMW1 w/ Clad	Safe End Side of DMW1	Safe End Side of DMW2	Elbow Side of DMW2
	β in radians	0.4494	0.4866	0.4866	0.4327	0.4230
	σ ^c _b , psi	18619	20002	20002	18025	17660
Level A	Normal S _c , psi	5613	6789	6789	5019	4698
Level B	Upset S _c , psi	7010	8233	8233	6401	6069
Level C	Emergency S _c , psi	9885	11155	11155	9276	8934
Level D	Faulted S _c , psi	12389	13588	13588	11842	11522
Level A	Normal o _b /S _c	0.0227	0.0153	0.0153	0.0389	0.0454
Level B	Upset σ _b /S _c	0.3944	0.2743	0.2743	0.6051	0.6965
Level C	Emergency σ _b /S _c	0.5471	0.3961	0.3961	0.8148	0.9231
Level D	Faulted o _b /S _c	0.4365	0.3251	0.3251	0.6382	0.7158
	σ ^c _m , psi	13571	13438	13438	13776	13833
Level A	Normal S _t , psi	5026	4977	4977	5102	5123
Level B	Upset S ₆ , psi	5655	5599	5599	5740	5764
Level C	Emergency S _t , psi	7540	7465	7465	7653	7685
Level D	Faulted S _i , psi	10440	10337	10337	10597	10641
Level A	Normal σ _m /S _i	0.7841	0.6089	0.6089	0.8773	0.9240
Level B	Upset σ_m/S_t	0.6970	0.5413	0.5413	0.7798	0.8213
Level C	Emergency σ_m/S_t	0.5227	0.4059	0.4059	0.5849	0.6160
Level D	Faulted σ_m/S_1	0.3775	0.2932	0.2932	0.4224	0.4449
Notes: $\sigma_h^f =$ Bending stress at incipient plastic collapse [1, C-5320]						

Allowable bending stress [1, C-5320] 200

Allowable membrane stress [1, C-5320]

22.2 Membrane stress at incipient plastic collapse [1, C-5320]

 σ^{r}_{m} (All terms defined in Section 3.0)

6.0 WELD OVERLAY LENGTH REQUIREMENTS

The weld overlay length must consider three requirements: (1) length required for structural reinforcement, (2) length required for preservice examination access of the overlaid weld, and (3) limitation on the area of the nozzle surface that can be overlaid.

6.1 **Structural Reinforcement**

 S_c

S,

Structural reinforcement requirements are expected to be satisfied if the weld overlay length is $0.75\sqrt{Rt}$ on either side of the susceptible weld being overlaid [4], where R is outside radius of the item and t is the Structurel Integrity Associates, Inc.

nominal thickness of the item at the applicable side of the overlay. However, to assure ASME Code, Section III, NB-3200 [2] compliance, detailed shear stress calculations are instead performed to determine the minimum required structural length.

The section along the length of the overlay is evaluated for axial shear due to transfer of axial load and moment from the overlaid item to the overlay. Subparagraph NB-3227.2 [2] limits pure shear due to Design Loadings, Test Loading or any Service Level loadings except Service Level D to $0.6S_m$. For Service Level D (Faulted) conditions, the stress intensity limit is the lesser of $2.4S_m$ and $0.7S_u$ [2, NB-3225 and Appendix F], equivalent to the lesser of $1.2S_m$ and $0.35S_u$ for shear stress, since stress intensity is equal to twice the shear stress. These values are shown in Table 7 for the spray nozzle, attached elbow, and weld overlay materials.

Shear stress around the circumference at the overlay-base material interface due to axial force and moment loading equals:

where,

 $\tau = p \ge \pi \ge R_o^2 / A_s + M / S_s,$

R_{σ}	22	outside radius of overlaid item at crack
L	-	length of overlay at outside surface of overlaid item on one side of crack
A_s	202	shear area, $2\pi R_o L$
S_s		$\pi R_o^2 L$
р		pressure
M		resultant moment from piping interface loads at crack

Thus

$$\tau = p \pi R_o^2 / (2\pi R_o L) + M / (\pi R_o^2 L)$$

Solving for L and equating τ with the allowable shear stress (S_{allow}) yields:

 $L = [pR_o/2 + M/(\pi R_o^2)]/S_{allow}, \text{ where,} \\S_{allow} = 0.6S_m \text{ (Service Levels A, B, and C)} \\S_{allow} = \text{Lesser of } 1.2S_m \text{ and } 0.35S_u \text{ (Service Level D)}$

The evaluation for required length is documented in Table 7 for the pressurizer spray nozzle and elbow. The overlay weld metal is also evaluated as it may control if the base metal has a higher value of S_m or S_u . The greater value of the required overlay length will be taken. The material properties are evaluated at the normal operating temperature of 650°F [6] using Section II, Part D of the ASME Code [3].

Since the overlay ends on the pressurizer spray nozzle at one end and the elbow at the other end, and extends over the safe end, the surface shear transfer into the base metal occurs onto the nozzle and elbow only. In this configuration, the requirements for shear lengths at intermediate locations (safe end) are not relevant and would have no influence on the required overlay. Therefore, they are not included herein.

The required overlay length is calculated at Locations 1 and 4 along the nozzle and elbow configuration (both sides of the DMW1 and DMW2). The evaluation results are presented in Table 7. The design

drawing implements a configuration that meets all the designed FSWOL thickness and length requirements. The lengths shown in Table 7 ensure adequate shear stress transfer along the length of the weld overlay. Service Level C is the most limiting of all cases. This length is sufficient to transfer the imposed loads and maintain stresses (shear) within the appropriate ASME Code allowable limits [2].

Table 7. Withinian Required Overlay Bength					
	Location 1A/1B	Location 1A/1B	Location 4	Location 4	
	Nozzle Side of DMW1	Nozzle Side of DMW1	Elbow Side of DMW2	Elbow Side of DMW2	
R _o , in	2.563	2.563	2.25	2.25	
Material	Alloy 52M	SA-508 Class 1	Alloy 52M	SA-403 WP316	
S _m , ksi	23.30	17.80	23.30	16.60	
Service Level A 0.6S _m , ksi	13.980	10.680	13.980	9.960	
Service Level B 0.6S _m , ksi	13.980	10.680	13.980	9.960	
Service Level C 0.6S _m , ksi	13.980	10.680	13.980	9.960	
Service Level D 1.2S _m , ksi	27.960	21.360	27.960	19.920	
S _u , ksi	80.00	70.00	80.00	71.80	
Service Level D 0.35S _u , ksi	28.000	24,500	28.000	25.130	
Service Level A L, in	0.2027	0.2654	0.1800	0.2527	
Service Level B L, in	0.3108	0.4068	0.3047	0.4277	
Service Level C L, in	0.4190	0.5485	0.4296	0.6030	
Service Level D L, in	0.2095	0.2742	0.2148	0.3015	

Table 7: Minimum Required Overlay Length

6.2 Preservice Examination

Weld overlay access for preservice examination requires that the overlay length and profile be such that the overlaid weld and any adjacent welds can be inspected using the required NDE techniques. This requirement could cause the overlay length to be longer than required for structural reinforcement. The specific overlay length required for preservice examination is determined based on the examination techniques and proximity of adjacent welds to be inspected.

6.3 Area Limitation on Nozzle

The total weld overlay surface area is limited to 500 in² (this value will be specified in the relief request) on the nozzle (carbon steel base material) when using ambient temperature temper bead welding to apply the overlay. Using an outside diameter of 5.125", the maximum length is limited to $500/(\pi D_o) = 31.0$ " on the carbon steel nozzle material. The required overlay length on the nozzle will be less than this limit (see Table 7).



6.4 Maximum Overlay Sizing

This calculation documents the minimum overlay thickness and length necessary for structural requirements. Additional thickness and length may be added to address inspectability and crack growth concerns. In addition, a maximum overlay thickness (typically an additional 0.25") and a maximum overlay length will be determined. The determination of the maximum length is based on implementation factors and is intended to be large enough so as to not unnecessarily constrain the overlay process. These dimensions will be indicated on a subsequent design drawing to create a "box" within which the overlay is analyzed. In the subsequent analyses, the finite element models use the geometry (minimum or maximum) that will produce conservative results.

7.0 DISCUSSIONS AND CONCLUSIONS

Table 8 and Figure 2 summarize the minimum required overlay dimensions. This calculation documents the development of a weld overlay design for the 4" nominal diameter pressurizer spray nozzle-to-safe end dissimilar metal weld and the safe end-to-elbow dissimilar metal weld at TMI-1. The design meets the requirements of the ASME Code, Section XI, Code Case N-504-3 [4] and ASME Code, Section XI, Appendix C [1] for a full structural weld overlay.

The weld overlay sizing presented in Table 8 is based upon the primary loadings documented in Section 4.0 and using the criteria from the ASME Code, Section XI, Appendix C. The overlay thicknesses and lengths listed in Table 8 meet ASME Code stress criteria.

	Location	Thickness, in.	Length, in.
Nozzle Side of DMW1	1A/1B	0.19/0.25	0.55
Safe End Side of DMW1	2	0.25	NA
Safe End Side of DMW2	3	0.15	NA
Elbow Side of DMW2	4	0.14	0.61

Table 8: Minimum Required Overlay Dimensions



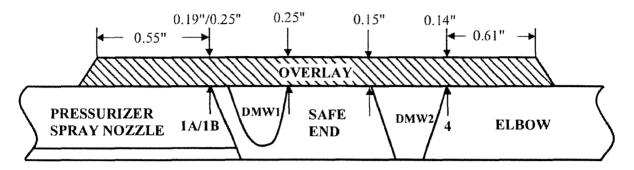
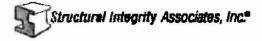


Figure 2: Full Structural Weld Overlay Geometry, Minimum Dimensions (Schematic Representation)



8.0 REFERENCES

- 1. ASME Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components, 2004 Edition.
- 2. ASME Boiler and Pressure Vessel Code, Section III, Rules for Construction of Nuclear Facility Components, 2004 Edition.
- 3. ASME Boiler and Pressure Vessel Code, Section II, Part D, Material Properties, 2004 Edition.
- 4. ASME Boiler and Pressure Vessel Code, Code Case N-504-3, "Alternative Rules for Repair of Classes 1, 2, and 3 Austenitic Stainless Steel Piping, Section XI, Division 1."
- ASME Boiler and Pressure Vessel Code, Code Case N-638-1, "Similar and Dissimilar Metal Welding Using Ambient Temperature Machine GTAW Temper Bead Technique, Section XI, Division 1."
- Email from William McSorley (Exelon) to Norman Eng (SI), dated March 02, 2011, Subject: "Status of Pzr Spray SWOL Analysis," includes attached file "GDeBoo Review of 310, 314, 315 & 316.doc", SI File No. 1000320.212.



File No.: **1000320.310** Revision: 0

F0306-01R1

- 15. Crane Company, Technical Paper No. 410, "Flow of Fluids through Valves, Fittings, and Pipe," 1976.
- 16. GPU Nuclear Drawing No. ID-212-23-028, Sheet 2 of 6, Rev. 1, "LPSI/Decay Heat Removal, Piping Analysis," SI File No. 1000320.204.

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1.0 OBJECTIVE

The objective of this evaluation is to perform a weld residual stress analysis using the ANSYS finite element software [1] on the pressurizer spray nozzle due to a weld overlay (WOL) repair for Three Mile Island Nuclear Generating Station, Unit 1 (TMI-1). The WOL is applied on the spray nozzle-to-safe end dissimilar metal weld (DMW) and safe end-to-attached pipe dissimilar metal weld (DMW). This analysis includes simulating weld repairs at the inner diameter (ID) surface for postulated flaws within the nozzle-to-safe end weld and the safe end-to-attached pipe weld. The ID weld repairs are simulated to provide an unfavorable stress condition (prior to applying the weld overlay) due to the original fabrication of these welds, which are used as the initial condition for the WOL evaluation.

The results will be evaluated to demonstrate that the weld overlay repair has indeed generated a favorable stress condition for the pressurizer spray nozzle, safe end, and the local attached spray pipe by inducing a compressive stress condition on the ID surface. The favorable stress condition minimizes and/or arrests crack initiation/propagation caused by Primary Water Stress Corrosion Cracking (PWSCC) in the susceptible DMW material.

Furthermore, the as-modeled weld overlay repair corresponds to the minimum design dimensions of the pressurizer spray nozzle overlay [2], and thus is considered to bound the case for an as-built weld overlay (typically longer and thicker upon installation).

2.0 DESIGN INPUTS

2.1 Finite Element Model

The finite element model (FEM) of the pressurizer spray nozzle, including material properties, is obtained from Reference 3 (input file *TMI-SPRAY-RES_64bit.INP*). The FEM is modeled as an axisymmetric model even though the elbow is present after the safe end-to-pipe weld. This is because the results from the residual analyses are extracted through the nozzle-to-safe end weld and safe end-to-pipe weld, which are sufficiently far away from the elbow. Two ID weld repairs, nozzle-to-safe end weld repair (ID repair1) and the safe end-to-attached pipe weld repair (ID repair2) are simulated in this analysis to show that the weld overlay repair overcomes the tensile stresses generated by these postulated ID repairs.

Figure 1 shows the applied structural boundary conditions on the axisymmetric finite element model, while Figure 2 identifies the different components of the pressurizer spray nozzle. The weld overlay nugget layout used for the residual stress evaluation is shown in Figure 3.

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Axisymmetric PLANE55 elements are used in the thermal analysis, while axisymmetric PLANE182 elements are used in the stress analysis. The weld bead depositions are simulated using the element "birth and death" feature in ANSYS.

The element "birth and death" feature in ANSYS allows for the deactivation (death) and reactivation (birth) of the elements' stiffness contribution when necessary. It is used such that elements that have no contribution to a particular phase of the weld simulation process are deactivated (via EKILL command) because they have not been deposited. The deactivated elements have near-zero conductivity and stiffness contribution to the structure. When those elements are required in a later welding phase, they are then reactivated (via EALIVE command).

The analyses consist of a thermal pass to determine the temperature distribution due to the welding process, and an elastic-plastic stress pass to calculate the residual stresses through the thermal history induced by each weld pass. Appropriate weld heat efficiency, along with sufficient cooling time, are utilized in the thermal pass to ensure that the temperature between weld layer nuggets meets the required interpass temperature as well as obtain acceptable overall temperature distribution within the FEM (i.e., peak temperature, sufficient resolution of results, etc.).

2.2 Material Properties

The materials of the various components of the model are listed below per Table 1 of Reference 3.

Pressurizer Hemispherical Head:	SA-516 Grade 70
• Pressurizer Hemispherical Head and Nozzle Cladding:	SA-240 TP304
Pressurizer Spray Nozzle:	SA-508 Class 1
Nozzle-to-Safe End Weld:	Alloy 82/182
Safe End:	SB-166 (Taken as Alloy 600)
Safe End-to-attached Pipe Weld:	Alloy 82/182
Spray Piping:	SA-403 WP316 (Elbow)
Buffer Layer:	ER-308L
Weld Overlay:	Alloy 52M
Nozzle-to-Safe End Weld ID Repair:	Alloy 82/182
Safe End-to- attached Pipe Weld ID Repair:	Alloy 82/182

The temperature dependent nonlinear material property values are obtained from Reference 3 (input file *MProp_MISO_NLinear_TMLINP*). This analysis applies the multilinear isotropic hardening material behavior available within the ANSYS finite element program.

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3.0 ASSUMPTIONS

The following assumptions are used in the residual stress evaluation:

- 1. Assumptions in Reference 3 are applicable in this calculation.
- 2. The nozzle-to-safe end weld is not included in the residual stress determination as the resulting stress state will be conservatively assumed to be zero, as studies have shown [12] that the as-welded (butt weld) stress state is typically compressive at the ID surface. Imposing the residual effect of the ID repair on a zero stress state is conservative, as this increases the tensile stresses at the ID. Reference 12 documents that even with the significant compressive stresses of the as-welded butt weld, the residual stress state of the final ID weld repair is adverse, with significant axial and hoop tensile stresses. The same assumption holds true for the safe end-to-attached pipe weld.
- 3. A convection heat transfer coefficient of 5.0 Btu/hr-ft²-°F at 70°F bulk ambient temperature is applied to simulate an air environment at the inside surface during the application of both the ID weld repairs.
- 4. The outside surfaces have a heat transfer coefficient of 5.0 Btu/hr-ft²-°F at 70°F bulk ambient temperature during the application of the ID weld repairs to simulate an air environment.
- 5. During the weld overlay process (for the buffer (stainless steel) layer), the applied heat transfer boundary condition of 5.0 Btu/hr-ft²-°F at 70°F bulk ambient temperature was used on the inside surface to simulate an air environment.
- 6. It is assumed that during the weld overlay process, for the transition from the buffer layer (stainless steel) to the weld overlay (Alloy 52M), the buffer layer cools down to the ambient temperature of 70°F.
- 7. During the weld overlay process (for the weld overlay (Alloy 52M) material), the applied heat transfer boundary condition of 5.0 Btu/hr-ft²-°F at 70°F bulk ambient temperature was used on the inside surface to simulate an air environment.
- 8. The outside surfaces have a heat transfer coefficient of 5.0 Btu/hr-ft²-°F at 70°F bulk ambient temperature during the WOL process (for both the buffer layer (stainless steel) and weld overlay (Alloy 52M) layers) to simulate an air environment.
- 9. A maximum interpass temperature of 350°F between the depositions of weld nuggets is assumed for all welding processes [5].
- 10. Additional assumptions including details on the heat source and heat efficiency values can be obtained from Reference 6.
- 11. For the boundary conditions, symmetry is applied at the free end of the vessel, and the nodes at the free end of the modeled pipe are coupled in the axial direction to simulate the attached piping.



4.0 METHODOLOGY

The residual stresses due to welding are controlled by various welding parameters, thermal transients due to application of the welding process, temperature dependent material properties, and elastic-plastic stress reversals. The analytical technique uses finite element analysis to simulate the multi-pass ID weld repairs, and weld overlay processes.

A residual stress evaluation process was previously developed in an internal Structural Integrity Associates (SI) project. Details of the process and its comparison to actual test data are provided in Reference 6. The same process is used herein. The finite element model of the pressurizer spray nozzle was developed in Reference 3. This model consists of a local portion of the pressurizer top head, pressurizer top head and nozzle cladding, the pressurizer spray nozzle, the nozzle-to-safe end weld, a postulated ID weld repair for the nozzle-to-safe end weld, the safe end, the safe end-to-attached pipe weld, a postulated ID weld repair for the safe end-to-attached pipe weld, a local portion of the spray attached piping, and the weld overlay repair (including the buffer layer). The as-modeled weld overlay repair meets minimum structural requirements as well as nondestructive examination (NDE) requirements [13].

4.1 Weld Bead Simulation

In order to reduce computational time, but yet obtain a valid solution, individual weld beads or passes can be lumped together into weld nuggets. This methodology is based on the approach presented in References 7, 8, 9 and 10.

The number of equivalent bead passes is estimated by dividing each nugget area by the area of an individual bead. The resulting number of equivalent bead passes per nugget is used as a multiplier to the heat generation rate. The welding direction is taken to be from the nozzle to the attached pipe. A summary of nuggets for the welds are as follows (see Figure 3):

- The ID weld repair for the nozzle-to-safe end weld is performed in three layers, with one nugget for each layer. A total of three nuggets are defined for this ID weld repair.
- The ID weld repair for the safe end-to-attached pipe weld is performed in two layers, with one nugget for each layer. A total of two nuggets are defined for this ID weld repair
- The weld overlay is performed in six layers. A total of one hundred thirty three nuggets are defined for the weld overlay:
 - o Layer one is comprised of nineteen nuggets (including six nuggets for the buffer layer)
 - Layer two is comprised of eighteen nuggets
 - Layer three is comprised of nineteen nuggets
 - o Layer four is comprised of thirty nuggets
 - Layer five is comprised of twenty seven nuggets
 - Layer six is comprised of twenty six nuggets



4.2 Welding Simulation

The ID repair1 is applied first. The safe end and the attached pipe are in place when the repair is applied, however the ID repair2 elements are deactivated. After the ID repair1 is completed, the model is cooled down to a uniform ambient temperature of 70°F. The ID repair2 simulation is then applied. After the ID repair2 is completed, the model is again cooled to a uniform ambient temperature of 70°F. This is followed by the application of the buffer layer, cooling it to an ambient temperature of 70°F, and finally followed by the weld overlay simulation. After the weld overlay is completed, the model is cooled to a uniform ambient temperature of 70°F to obtain residual stresses at room temperature. Then it is heated to a uniform operating temperature of 650°F [14], and an operating pressure of 2155 psig [11] to obtain the combined residual stresses at operating temperature and pressure.

4.2.1 Internal Pressure Loading

The operating pressure of 2155 psig is applied to the interior surfaces of the model. An end-cap load is applied to the free end of the attached piping in the form of tensile axial pressure, and the value is calculated below. See Figure 4 for the applied pressure loading. Symmetric boundary conditions are applied at the circumferential free end of the pressurizer top head, and the nodes at the free end of the attached piping are coupled in the axial direction as shown in Figure 1, to simulate continuity.

$$P_{end-cap} = \frac{P \cdot r_{inside}^2}{\left(r_{ourside}^2 - r_{inside}^2\right)} = \frac{2155 \cdot 1.8007^2}{\left(2.2437^2 - 1.8007^2\right)} = 3900 \text{ psig}$$

where,

Pend-cap= End cap pressure on attached pipe (psig)P= Internal pressure (psig)rinside= Inside radius of attached pipe (in) [3, as modeled]routside= Outside radius of attached pipe (in) [3, as modeled]

The ANSYS input and output files for the analysis are listed in Table 1.

5.0 WELDMENT TEMPERATURE GUIDELINE

The analytical procedure described in Section 4.0 has provided reasonable results as seen in previous similar analyses [6] when compared to results from test data. This can be demonstrated by observing the fusion boundary prediction of the welds. Figures 5 through 8 show the predicted fusion boundaries for all the welding processes as generated by ANSYS for this specific overlay. The fusion boundaries represent the predicted maximum temperature contour mapping that the weld nugget elements will reach during each welding process. Note that the figures are composites showing the maximum temperature among all nuggets of each weld. This is made possible by an ANSYS macro (MapTemp.MAC) that



reads in the maximum predicted temperatures across the different weld nugget elements during the welding process, and displays them as a temperature contour plot.

The figures show that all weld elements have reached temperatures between $2,674^{\circ}F$ and $3,000^{\circ}F$. It also shows that the heat penetration depth, where temperatures are above $1,300^{\circ}F$, is similar in size to the heat affected zone (HAZ) of between 1/8" and 1/4".

6.0 RESULTS OF ANALYSIS

Figures 9 and 10 depict the axial and hoop residual stress distribution for the post ID weld repair of the nozzle-to-safe end weld condition at 70°F, respectively. The axial direction and the hoop direction are with respect to the global coordinate system of the finite element model. The axial stress is SY and the hoop stress is SZ. It is shown that extensive tensile axial and hoop residual stresses occur along the inside surface of the nozzle in the vicinity of the nozzle-to-safe end ID weld repair.

Figures 11 and 12 depict the axial and hoop residual stress distribution for the post ID weld repair of the safe end-to-attached pipe weld condition at 70°F, respectively. Figures 13 and 14 depict the axial and hoop residual stress distribution for the post WOL condition at 70°F, respectively. Figures 15 and 16 depict the resultant residual plus operating condition stress distributions for the post WOL configuration at the operating temperature of 650°F and operating pressure of 2155 psig in the axial and hoop directions, respectively.

Figures 17 and 18 are ID surface stress plots for the axial and hoop directions as a function of distance from the ID weld repair centerline, respectively. The results are plotted for post ID weld repair of nozzle-to-safe end weld, post ID weld repair of safe end-to-attached pipe weld, post WOL at 70°F, and post WOL at 650°F and 2155 psig.

Furthermore, Figures 17 and 18 show that post weld overlay compressive stresses for both the 70°F and operating conditions (650°F/2155 psig) are largely present at the ID surfaces of the susceptible material. This would indicate that at any intermediate steady state operating condition (i.e., temperature and pressure) the residual stresses would remain compressive. Any additive loads (i.e., thermal transients) are short term in nature and are not relevant to PWSCC concerns. The results suggest that the weld overlay has indeed mitigated the susceptible material against PWSCC.

In addition, through-wall axial and hoop stress results are extracted for various paths defined in Figure 19. Three stress paths are defined through the DMW of nozzle-to-safe end and three paths are defined through the DMW of safe end-to-attached pipe. The stress path results are shown in Figures 20 and 21. The results will be used for a subsequent crack growth evaluation in a separate calculation package. Two sets of data are extracted, which are for post WOL at 70°F and for post WOL at 650°F/2155 psig.

The post-processing outputs are listed in Table 1. They are further processed in Excel spreadsheet 1000320-314.xls.

Structural Integrity Associates, Inc.*

7.0 **REFERENCES**

- 1. ANSYS Mechanical and PrepPost, Release 11.0 (w/Service Pack 1), ANSYS, Inc., August 2007.
- 2. SI Drawing No. 1000320.510 "Pressurizer Spray Nozzle Full Structural (FSWOL) Weld Overlay Design Drawing," (for revision number refer to SI Project Revision Log, latest revision).
- 3. SI Calculation No. 1000320.312, "Material Properties and Finite Element Models for Pressurizer Spray Nozzle with Weld Overlay Repair," (for revision number refer to SI Project Revision Log, latest revision).
- 5. ASME Boiler and Pressure Vessel Code, Code Case N-740-2, "Full Structural Dissimilar Metal Weld Overlay for Repair or Mitigation of Class 1, 2 and 3 Items," Section XI, Division 1.
- 6. SI Calculation No. 0800777.304, Rev. 1, "Residual Stress Methodology Development and Benchmarking of a Small Diameter Pipe Weld Overlay, Using MISO Properties."
- 7. Dong, P., "Residual Stress Analyses of a Multi-Pass Girth Weld: 3-D Special Shell Versus Axisymmetric Models," Journal of Pressure Vessel Technology, Vol. 123, May 2001.
- 8. Rybicki, E. F., et al., "Residual Stresses at Girth-Butt Welds in Pipes and Pressure Vessels," U.S. Nuclear Regulatory Commission Report NUREG-0376, R5, November 1977.
- 9. Rybicki, E. F., and Stonesifer, R. B., "Computation of Residual Stresses due to Multipass Welds in Piping Systems," Journal of Pressure Vessel Technology, Vol. 101, May 1979.
- 10. Materials Reliability Program: Technical Basis for Preemptive Weld Overlays for Alloy 82/182 Butt Welds in PWRs (MRP-169), Revision 1, EPRI, Palo Alto, CA: 2008. 1016602.
- E-mail attachment, Document 5971-2010-015, Rev. 0, "Design Input for TMI-1 Pressurizer Spray Nozzle SWOL," from Bill McSorley (Exelon) to Norman Eng (SI), "Three Mile Island Transmittal of Design Information," September 17, 2010, SI File No. 1000320.210.
- 12. Materials Reliability Program: Welding Residual and Operating Stresses in PWR Alloy 182 Butt Welds (MRP-106), EPRI, Palo Alto, CA: 2004. 1009378.
- 13. SI Calculation No. 1000320.310, "Pressurizer Spray Nozzle Weld Overlay Sizing Calculation," (for revision number refer to SI Project Revision Log, latest revision).
- 14. Email from William McSorley (Exelon) to Norman Eng (SI), dated March 02, 2011, Subject: "RE: Status of Pzr Spray SWOL Analysis," SI File No. 1000320.212.



Input File	Description/Comment	
TMI-SPRAY-RES_64bit.INP	Structural geometry for 2D axisymmetric geometry [3]	
MProp_MISO_NLinear_TMI.INP	Material Property data of E, alpha, conductivity, specific heat, and stress strain curves [3]	
BCNUGGET2D.INP	Weld nuggets definition and boundary conditions file	
PICK2D.INP	Writes boundary conditions and nugget definitions into BCNUGGET2D.INP file	
THERMAL2D.INP	Thermal pass for simulating weld processes	
STRESS2D.INP	Stress pass for simulating weld processes	
WELD1_mntr.INP	Contains LDREAD commands for ID Repair1 portion of the stress pass	
WELD2_mntr.INP	Contains LDREAD commands for ID Repair2 portion of the stress pas	
WELD3_mntr.INP	Contains LDREAD commands for buffer layer portion of the stress pas	
WELD4_mntr.INP	Contains LDREAD commands for weld overlay portion of the stress pas	
POST_PATH.INP	Post processing file to extract path stresses	
POST_ID.INP	Post processing file to extract ID surface stresses	
Output File	Description/Comment	
PATH_T70.OUT	Path stress outputs for post WOL at 70°F	
PATH_T650_P2155.OUT	Path stress outputs for post WOL at 650°F and 2155 psig	
ID_NLIST.OUT	ID surface nodal coordinate outputs	
ID_WELDI.OUT	ID surface stress outputs for post ID Repair1 at 70°F	
ID_WELD2.OUT	ID surface stress outputs for post ID Repair2 at 70°F	
ID_T70.OUT	ID surface stress outputs for post WOL at 70°F	
ID_T650_P2155.OUT	ID surface stress outputs for post WOL at 650°F and 2155 psig	
1000320-314.xls	Excel spreadsheet containing all output data	

Table 1: ANSYS Input and Output Files

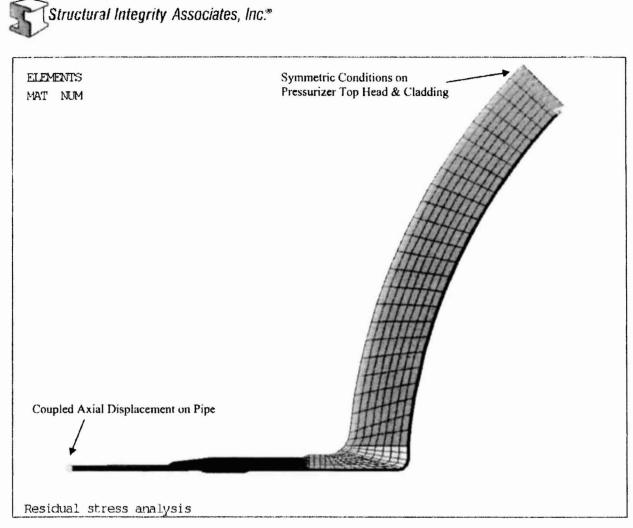


Figure 1: Applied Structural Boundary Conditions to the Pressurizer Spray Nozzle Finite Element Model



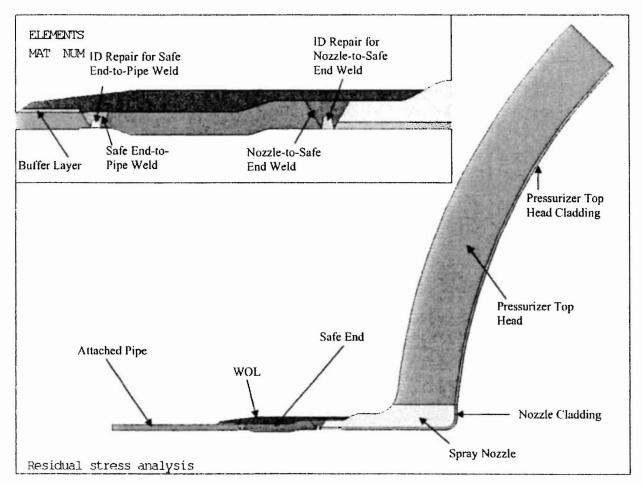
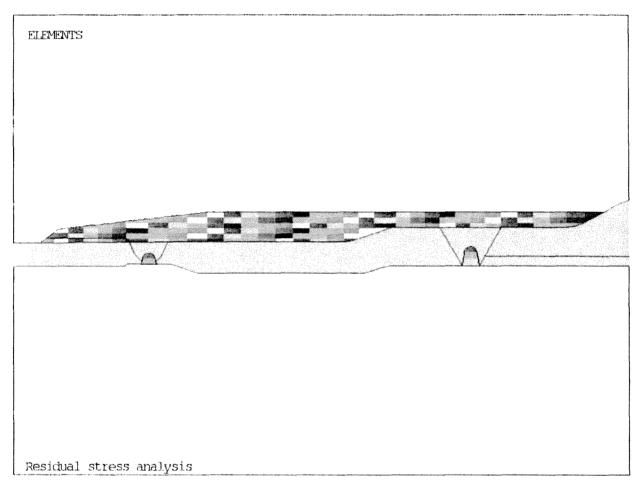


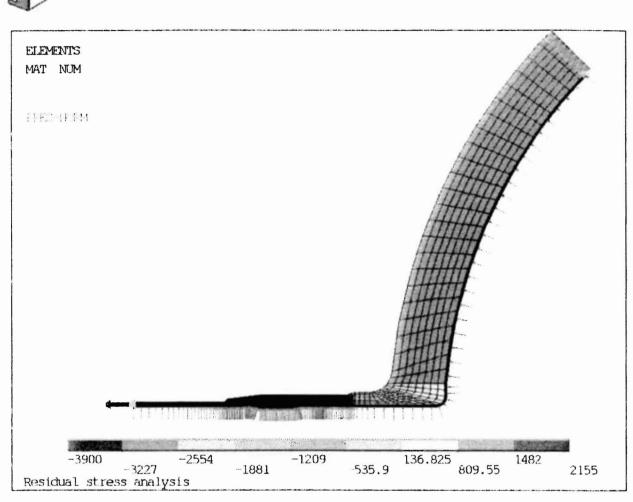
Figure 2: As-Modeled Components for the Pressurizer Spray Nozzle



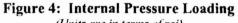




(Numbers in parenthesis indicate the number of nuggets used for the corresponding simulation) (In all instances, ID Repair1 corresponds to the nozzle-to-safe end weld and ID Repair2 corresponds to the safe end-to-pipe weld)



Structural Integrity Associates, Inc.*



(Units are in terms of psi)



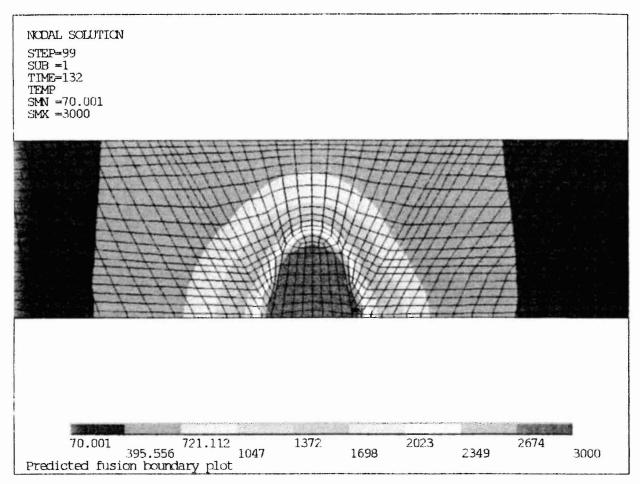


Figure 5: Predicted Fusion Boundary for ID Repair1 (Units are in terms of °F)

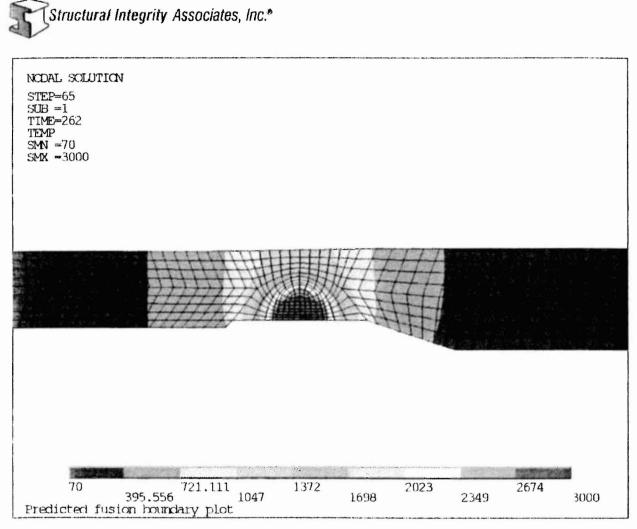
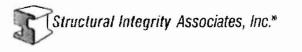


Figure 6: Predicted Fusion Boundary for ID Repair2 (Units are in terms of °F)



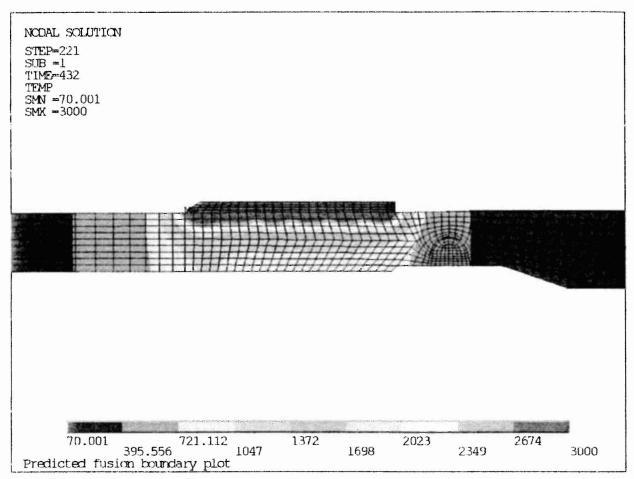


Figure 7: Predicted Fusion Boundary for Buffer Layer

(Units are in terms of °F) (Note: The buffer layer is located in the safe end-to-pipe DMW region)

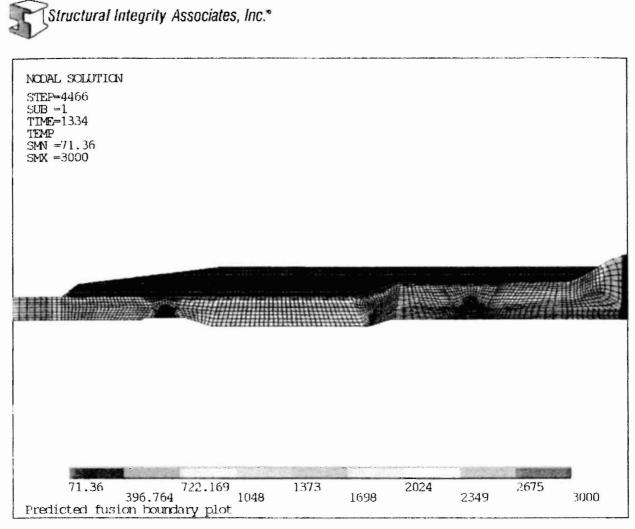


Figure 8: Predicted Fusion Boundary for Weld Overlay (Units are in terms of °F)



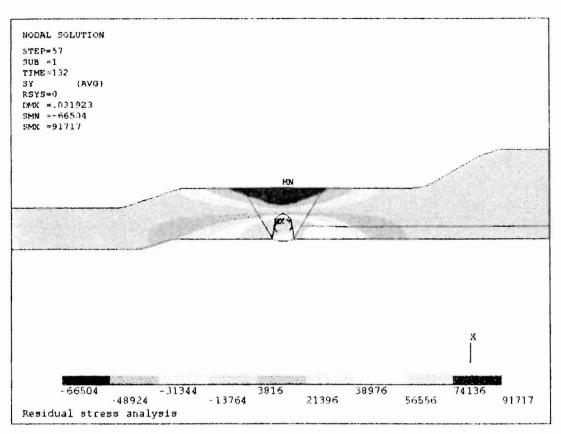
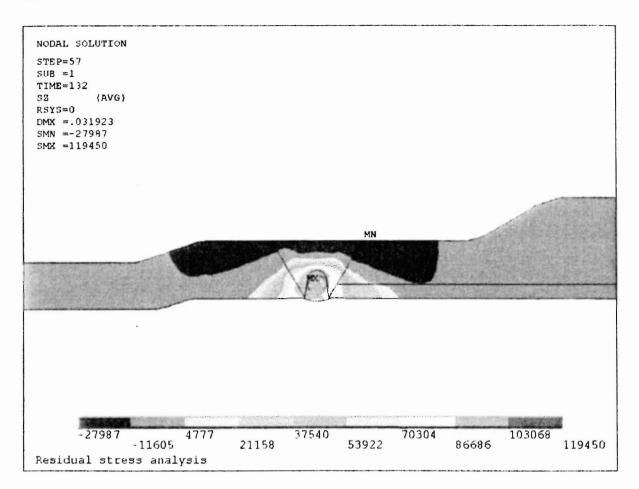
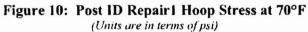


Figure 9: Post ID Repair1 Axial Stress at 70°F (Units are in terms of psi)









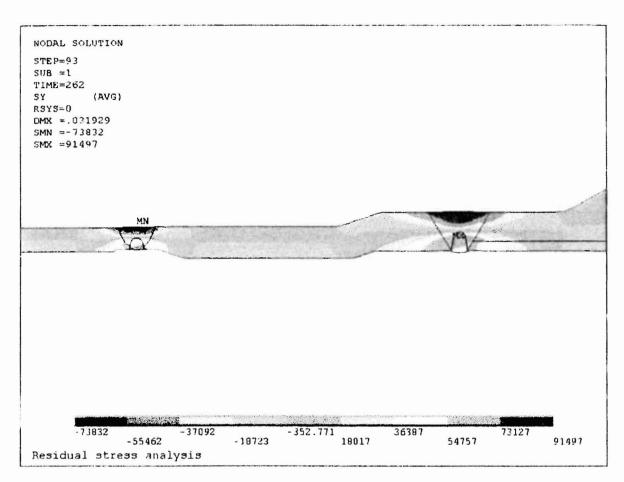
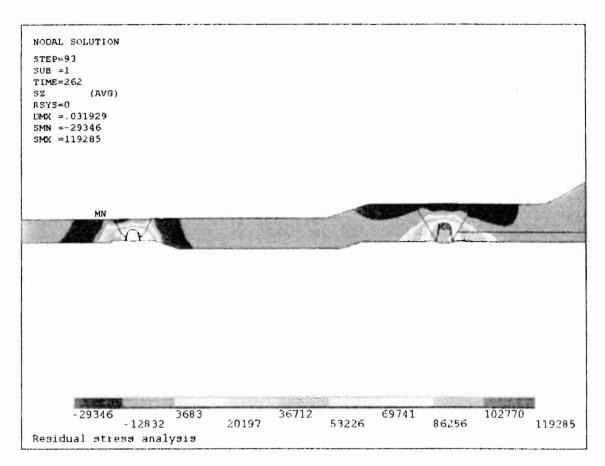
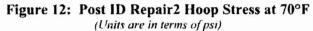


Figure 11: Post ID Repair2 Axial Stress at 70°F

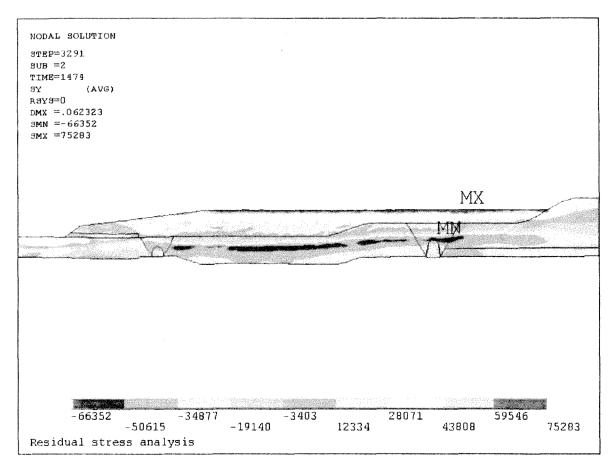
(Units are in terms of psi)





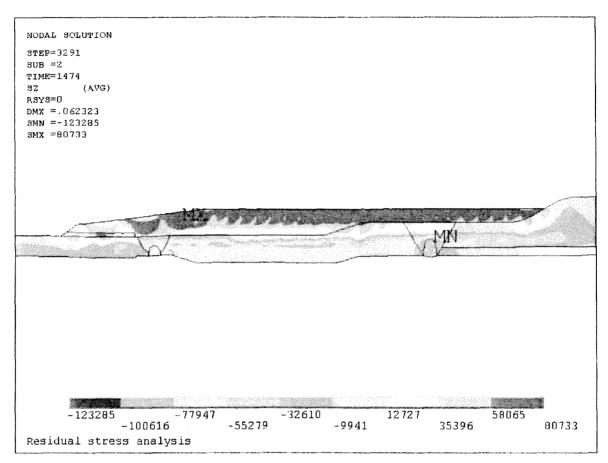
















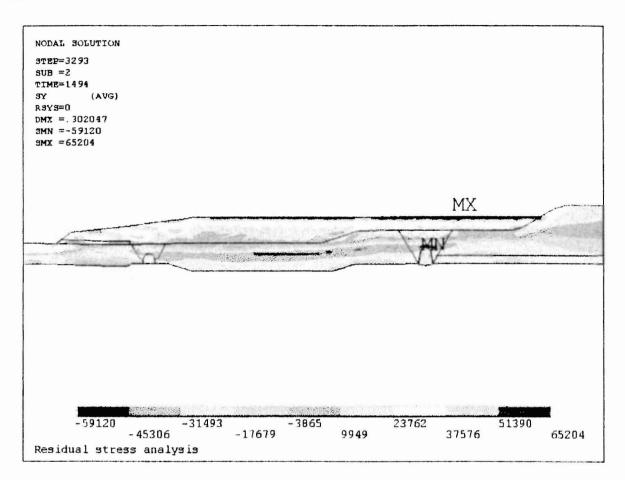
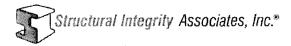


Figure 15: Post Weld Overlay Axial Stress at 650°F and 2155 psig (Units are in terms of psi)



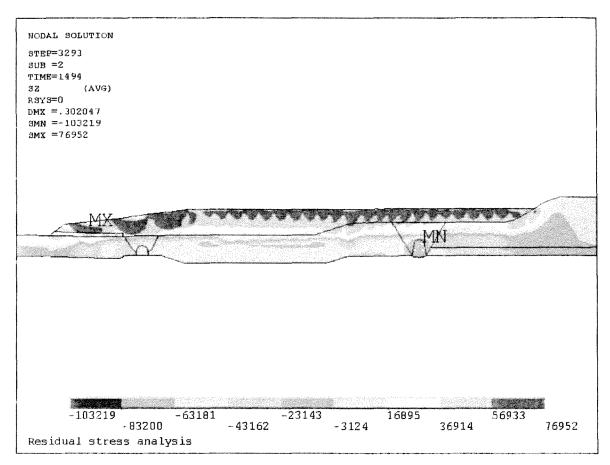


Figure 16: Post Weld Overlay Hoop Stress at 650°F and 2155 psig (Units are in terms of psi)



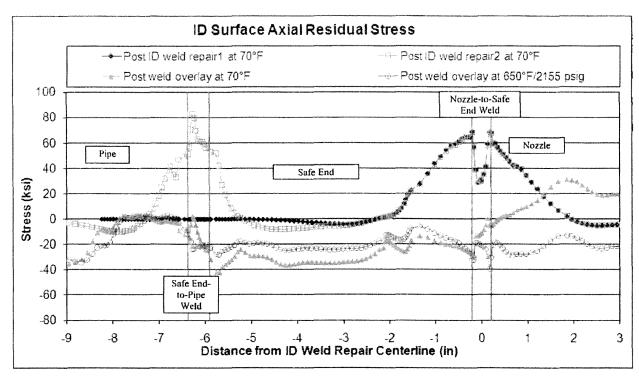


Figure 17: ID Surface Axial Residual Stresses



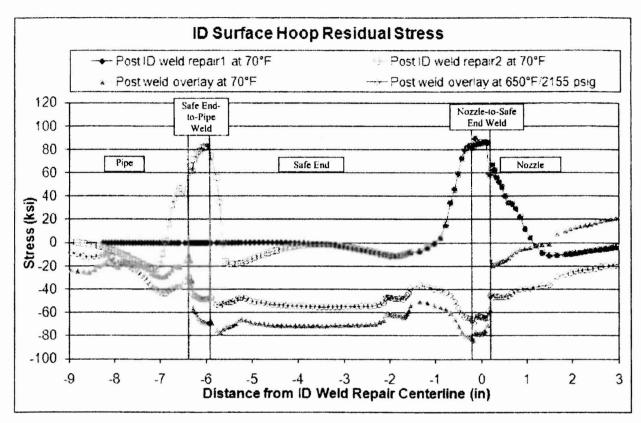


Figure 18: ID Surface Hoop Residual Stresses

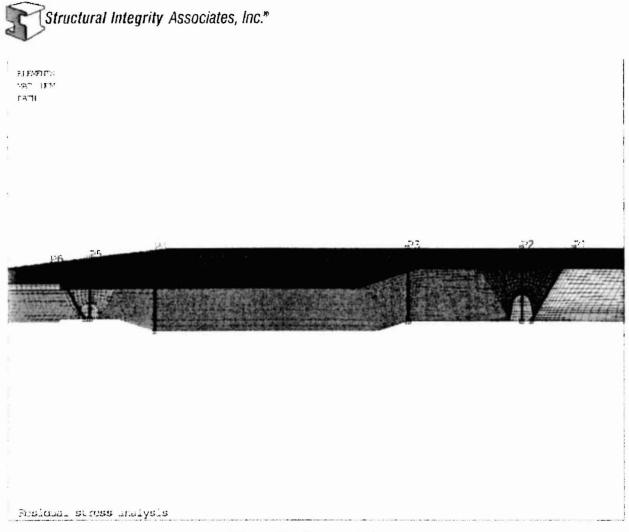
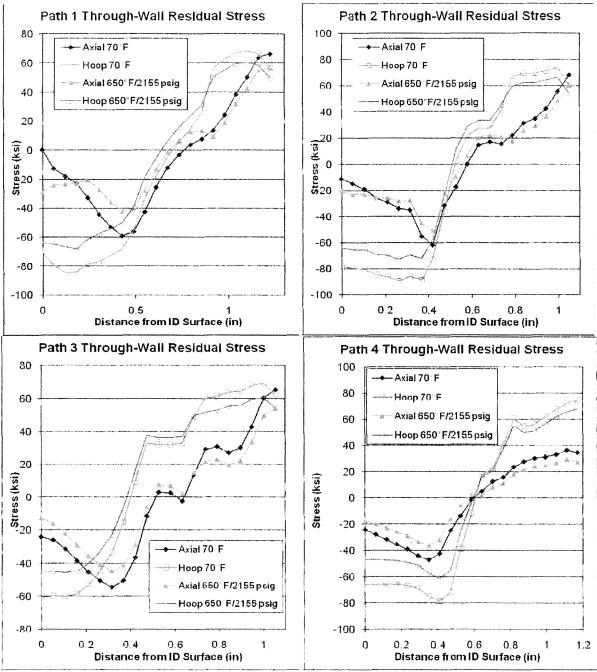
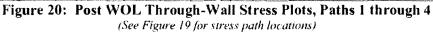


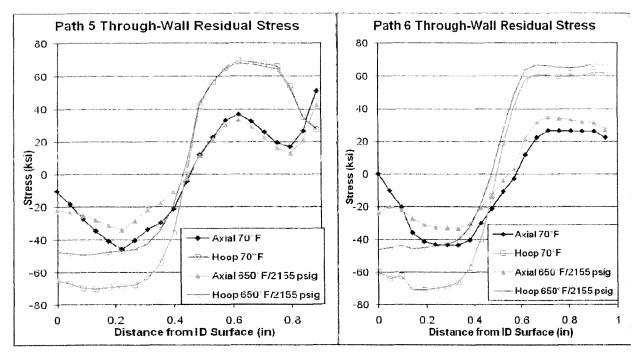
Figure 19: Path Definitions (P1, P2, P3, P4, P5 and P6 denote Stress Paths 1, 2, 3, 4, 5 and 6)

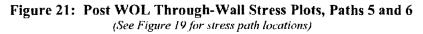












ATTACHMENT 6

Affidavits

x

AFFIDAVIT

COMMONWEALTH OF VIRGINIA)) ss. CITY OF LYNCHBURG)

1. My name is Gayle F. Elliott. I am Manager, Product Licensing, for AREVA NP Inc. (AREVA NP) and as such I am authorized to execute this Affidavit.

2. I am familiar with the criteria applied by AREVA NP to determine whether certain AREVA NP information is proprietary. I am familiar with the policies established by AREVA NP to ensure the proper application of these criteria.

3. I am familiar with the AREVA NP information contained in the Structural Integrity Associates, Inc. Calculation Package, No. 1000320.310, Revision 0, entitled "Pressurizer Spray Nozzle Weld Overlay Sizing Calculation," and referred to herein as "Document." Information contained in this Document has been classified by AREVA NP as proprietary in accordance with the policies established by AREVA NP for the control and protection of proprietary and confidential information.

4. This Document contains information of a proprietary and confidential nature and is of the type customarily held in confidence by AREVA NP and not made available to the public. Based on my experience, I am aware that other companies regard information of the kind contained in this Document as proprietary and confidential.

5. This Document has been made available to the U.S. Nuclear Regulatory Commission in confidence with the request that the information contained in this Document be withheld from public disclosure. The request for withholding of proprietary information is made in accordance with 10 CFR 2.390. The information for which withholding from disclosure is requested qualifies under 10 CFR 2.390(a)(4) "Trade secrets and commercial or financial information."

6. The following criteria are customarily applied by AREVA NP to determine whether information should be classified as proprietary:

- (a) The information reveals details of AREVA NP's research and development plans and programs or their results.
- (b) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service.
- (c) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.
- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in the Document is considered proprietary for the reasons set forth in paragraphs 6(b) and 6(c) above.

7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

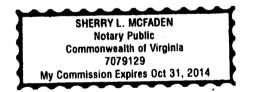
8. AREVA NP policy requires that proprietary information be kept in a secured file or area and distributed on a need-to-know basis.

9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

SUBSCRIBED before me this March dav of 2011.

al

Sherry L. McFaden NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA MY COMMISSION EXPIRES: 10/31/14 Reg. # 7079129





5215 Heliyer Ave. Suite 210 San Jose, CA 95138-1025 Phone: 408-978-8200 Fax: 408-978-8964 www.structint.com

March 23, 2011

AFFIDAVIT

I, Marcos Legaspi Herrera, state as follows:

- (1) I am a Vice President of Structural Integrity Associates, Inc. (SI) and have been delegated the function of reviewing the information described in paragraph (2) which is sought to be withheld, and have been authorized to apply for its withholding.
- (2) The information sought to be withheld is contained in SI Calculation 1000320.310, Rev. 0, "Pressurizer Spray Nozzle Weld Overlay Sizing Calculation." This calculation is to be treated as SI proprietary information, because it contains significant information that is deemed proprietary and confidential to AREVA NP. AREVA NP design input information was provided to SI in strictest confidence so that we could generate the aforementioned calculation on behalf of SI's client, Exelon Nuclear Company, LLC (Exelon).

Paragraph 3 of this Affidavit provides the basis for the proprietary determination.

- (3) SI is making this application for withholding of proprietary information on the basis that such information was provided to SI under the protection of a Proprietary/Confidentiality and Nondisclosure Agreement between SI and AREVA NP. In a separate Affidavit requesting withholding of such proprietary information prepared by AREVA NP, AREVA NP relies upon the exemption of disclosure set forth in NRC Regulation 10 CFR 2.390(a)(4) pertaining to "trade secrets and commercial or financial information obtained from a person and privileged or confidential" (Exemption 4). As delineated in AREVA NP's Affidavit, the material for which exemption from disclosure is herein sought is considered proprietary for the following reasons (taken directly from Items 6(b) and 6(c) of AREVA NP's Affidavit):
 - a) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service; and

b) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.

Public disclosure of the information sought to be withheld is likely to cause substantial harm to AREVA NP with which SI has established a Proprietary/Confidentiality and Nondisclosure Agreement.

I declare under penalty of perjury that the above information and request are true, correct, and complete to the best of my knowledge, information, and belief.

Executed at San Jose, California on this 23rd day of March, 2011.

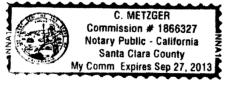
Marcos Legaspi Herrera, P.E. Vice President Nuclear Plant Services

State of California County of <u>Santa (Java</u> Subscribed and sworn to (or affirmed) before me

on this 23 day of March, 20 11, Date Month Year by

(1) Marcos Legason Hurera

proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (χ (and

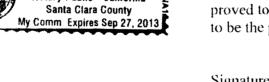


(2)

Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me.)

Signature Signature of Notary Public



Place Notary Seal and/or Stamp Above



AFFIDAVIT

COMMONWEALTH OF VIRGINIA)) ss. CITY OF LYNCHBURG)

1. My name is Gayle F. Elliott. I am Manager, Product Licensing, for AREVA NP Inc. (AREVA NP) and as such I am authorized to execute this Affidavit.

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3. I am familiar with the AREVA NP information contained in the Structural Integrity Associates, Inc. Calculation Package, No. 1000320.314, Revision 0, entitled "Residual Stress Analysis of Pressurizer Spray Nozzle with Weld Overlay Repair," and referred to herein as "Document." Information contained in this Document has been classified by AREVA NP as proprietary in accordance with the policies established by AREVA NP for the control and protection of proprietary and confidential information.

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- (d) The information reveals certain distinguishing aspects of a process, methodology, or component, the exclusive use of which provides a competitive advantage for AREVA NP in product optimization or marketability.
- (e) The information is vital to a competitive advantage held by AREVA NP, would be helpful to competitors to AREVA NP, and would likely cause substantial harm to the competitive position of AREVA NP.

The information in the Document is considered proprietary for the reasons set forth in paragraphs 6(b) and 6(c) above.

7. In accordance with AREVA NP's policies governing the protection and control of information, proprietary information contained in this Document have been made available, on a limited basis, to others outside AREVA NP only as required and under suitable agreement providing for nondisclosure and limited use of the information.

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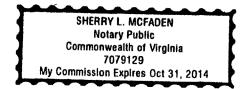
9. The foregoing statements are true and correct to the best of my knowledge, information, and belief.

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SUBSCRIBED before me this _ Mar day of _ , 2011.

Mul

Sherry L. McFaden NOTARY PUBLIC, COMMONWEALTH OF VIRGINIA MY COMMISSION EXPIRES: 10/31/14 Reg. # 7079129





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March 23, 2011

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I, Marcos Legaspi Herrera, state as follows:

- (1) I am a Vice President of Structural Integrity Associates, Inc. (SI) and have been delegated the function of reviewing the information described in paragraph (2) which is sought to be withheld, and have been authorized to apply for its withholding.
- (2) The information sought to be withheld is contained in SI Calculation 1000320.314, Rev. 0, "Residual Stress Analysis of Pressurizer Spray Nozzle with Weld Overlay Repair." This calculation is to be treated as SI proprietary information, because it contains significant information that is deemed proprietary and confidential to AREVA NP. AREVA NP design input information was provided to SI in strictest confidence so that we could generate the aforementioned calculation on behalf of SI's client, Exelon Nuclear Company, LLC (Exelon).

Paragraph 3 of this Affidavit provides the basis for the proprietary determination.

- (3) SI is making this application for withholding of proprietary information on the basis that such information was provided to SI under the protection of a Proprietary/Confidentiality and Nondisclosure Agreement between SI and AREVA NP. In a separate Affidavit requesting withholding of such proprietary information prepared by AREVA NP, AREVA NP relies upon the exemption of disclosure set forth in NRC Regulation 10 CFR 2.390(a)(4) pertaining to "trade secrets and commercial or financial information obtained from a person and privileged or confidential" (Exemption 4). As delineated in AREVA NP's Affidavit, the material for which exemption from disclosure is herein sought is considered proprietary for the following reasons (taken directly from Items 6(b) and 6(c) of AREVA NP's Affidavit):
 - a) Use of the information by a competitor would permit the competitor to significantly reduce its expenditures, in time or resources, to design, produce, or market a similar product or service; and

b) The information includes test data or analytical techniques concerning a process, methodology, or component, the application of which results in a competitive advantage for AREVA NP.

Public disclosure of the information sought to be withheld is likely to cause substantial harm to AREVA NP with which SI has established a Proprietary/Confidentiality and Nondisclosure Agreement.

I declare under penalty of perjury that the above information and request are true, correct, and complete to the best of my knowledge, information, and belief.

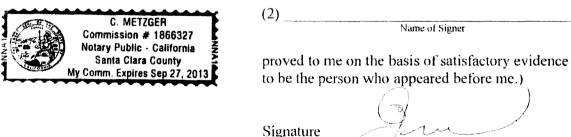
Executed at San Jose, California on this 23rd day of March, 2011.

Marcos Legaspi Herrera, P.E. Vice President Nuclear Plant Services

State of California County of <u>Santa Clara</u> Subscribed and sworn to (or affirmed) before me

on this 23_{Date} day of $March_{\text{Month}}$, $20_{\frac{11}{\text{Year}}}$, bv (1) Marcos Legaspi Herrera

proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (χ) (and



Place Notary Seal and/or Stamp Above



Signature of Notary Public