P3:16
UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of : | $X$ |
| :--- | :---: |
| LONG ISLAND LIGHT COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

## PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Monday, October 22, 1984

| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24369/13 | 33 through 41 | 33 through 40 |
| 24372/15 | B-7 -- B-32 | B-7 thru B-31 |
| 24372/16 | $\begin{aligned} & \mathrm{B}-34-\mathrm{B}-41 \\ & \mathrm{~B}-42--\mathrm{B}-52 \end{aligned}$ | $\begin{aligned} & \mathrm{B}-33 \text { thru } \mathrm{B}-40 \text { and } \mathrm{B}-42 \\ & \text { thru } \mathrm{B}-51 \end{aligned}$ |
| 24372/17 | for identification) | and admitted into evidence.) |
|  | Pages 75 and 76 of be put into proper page and page 1 of | Testimony should nce; preceding cover hement 3. |
|  | Attachments 1 and should be placed Direct Testimony; <br> "Supplemental Test | irect Testimony Attachment 3 to the tly located behind |
| 24373/18 | this | his |
| 24376/4 | significant | sufficient |
| 24378/8 | cracked | crack |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24378/10 | move the strike | move to strike |
| 24381/14 | filing | firing |
| 24385/15 | grab | grant |
| 24386/3 | parce | parcel |
| 24386/8 | on the explain | on to explain |
| 24388/5 | in ' 83 was based | in ' 84 was based |
| 24388/16 | to a | to answer a |
| 24388/17 | the | the witness to |
| 24390/21 | out | our |
| 24396/7 | seven | six |
| 24397/10 | try | trying |
| 24402/6 | 17 | B-17 |
| 24403/25 | data | date in |
| 24415 | Page follcwing be noted that pa have not been us If no pages hav the page follow YOUNGLING" befor to "There". | mbered; it can <br> r 22416 and 22417 <br> ges have been omitted. <br> itted, at the top of <br> 24415 insert "WITNESS <br> and change "there" |
| 24420/25 | out | about |
| 24425/6 | Mil | Mel |
| 24425/18 | DJ | DG |
| 24427/20 | DJ | DG |
| 24428/14 | Mil | Mel |
| 24437/22 | graphic | graphite |
| 24442/13 | that | by |


| Paqe/Line | Reads |
| :---: | :---: |
| 24444/16 | Mil |
| 24444/20 | performed |
| 24446/25 | LERS |
| 24447/1 | 22622289 |
| 24447/25 | untrasonics |
| 24448/9 | 22, 62, |
| 24448/9 | metalographically |
| 24448/19 | are |
| 24450/9 | penknife |
| 24454/11 | with |
| 24455/16 | change |
| 24458/8 | counterborel |
| 24459/4 | 23-1/2 |
| 24460/17 | loop |
| 24462/14 | on |
| 24463/23 | line |
| 24463/24 | intersepts examination |
| 24464/15 | separating |
| 24466/10 | is, |
| 24466/11 | are higher |
| 24470/12 | indispute |
| 24472/24 | Widmanstateten |
| 24478/5 | didn't material this continuity |

Should Read
Mel
performed a
LDRs
2262 and 2289
ultrasonics
2262
metallographically
were
pen knife
into
changed
counterbore
2-1/2
LOOP/
of
line --
intercepts examination --
separated
is, or
are, higher
in dispute
Widmanstaetten
degenerate Widmanstaetten

| Pag3/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24478/11 | reading | readings |
| 24480/3 | would see is some of the safest locations that we have both | would see, in some of the crack locations that we have, both |
| 24487/16 | far matched | far has not matched |
| 24488/15 | This | If this |
| 24496/21 | or | of |
| 24498/8 | August 8, 1984 | March 8, 1984 |
| 24499/12 | apply | applied |
| 24503 | Remove duplicates of and 24503 following | $\text { s } 24501,24502$ page. |
| 24508/1 | completion | completion of |
| 24508/14 | LDR 23-22 | LDR 2322 |
| 24508/24 | blacktop | block top |
| 24508/25 | blacktop | block top |
| 24510/2 | 4 | 5 |
| 24510/3-9 | Delete; partial dupl 24511 at lines 1-6. | ion of page |
| 24511/8 | loop | LOOP |
| 24513/4 | other | al though |
| 24513/11 | our number | our answer number |
| 24515/14 | $\begin{aligned} & Q \\ & \text { Are } \end{aligned}$ | JUDGE BRENNER: Are |

> UNITED STATES OF AMERICA
> NUCLEAR REGULATORY COMMISSION
> BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of: | X |
| :--- | ---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit l) | $\vdots$ |

PROPOSED ERRATA TO TRANSCRIPT
OF HEARING IN ABOVE ENTITLED MATTER
Tuesday, October 23, 1984

| Paqe/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $24527 / 20$ | on | of |
| $24529 / 11$ | conclude that | conclude whether |
| $24529 / 15$ | best | least period |
| $24531 / 7$ | models | models, |
| $24531 / 21$ | give | given |
| $24535 / 10$ | that on the | that in the |
| $24535 / 11$ | covert is a | the moduli |
| $24535 / 12$ | on liner $321 "$ | convert |
| $24536 / 21$ | failure analysis | on liner 3 to $l^{\prime \prime}$ |
| $24539 / 18$ | 1.3442 | Failure Analysis |
| $24539 / 22$ |  | l.342 |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24541/4 | termal | thermal |
| 24541/10 | lead | led |
| 24542/8 | rations | ratios |
| 24543/10 | existance | existence |
| 24543/24 | fact. | play. |
| 24546/11 | giveme | give me |
| 24546/15 | prenode experimental | preload experimental |
| 24547/8 | taken, to | taken. To |
| 24547/9 | testimony you | testimony, you |
| 24547/13 | bore | bad |
| 24547/24 | materials, properties | materials properties |
| 24549/23 | that superimposed | that (superimposed |
| 24549/24 | upon it, if you like. | upon it, if you like). |
| 24550/19 | of | in |
| 24550/21 | in this case we | in this case, we |
| 24551/21 | line up | liner |
| 24553/1 | B-30? Or | $\mathrm{B}-30$, where |
| 24556/2 | bars | bars, |
| 23557/17 | tops | top |
| 24558/21 | 1600 psi | $16,000 \mathrm{psi}$ |
| 24559/2 | calcuted | calculated |
| 24560/4 | degenerative | degenerate |
| 24560/6 | degenerative | degenerate |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24560/21 | that | there |
| 24561/7 | to the numbers | the same numbers |
| 24562/2 | machine | machined |
| 24564/9 | exedition | expedition |
| 24569/12 | wiat | wait |
| 24572/11 | examnations | examinations |
| 24582/16 | the time same | the same |
| 24582/23 | to A | 2A |
| 24583/24 | material is | material are |
| 24585/9 | an | as |
| 24587/5 | blocks | block sections |
| 24590/1 | is | it |
| 24591/5 | if | is |
| 24592/7 | see | don't see |
| 24593/23 | could | could not |
| 24595/9 | disquish | distinguish |
| 24598/5 | identification | for identification |
| 24598 | Page following thi be deleted. Dupli appears in proper | numbered 24648 should of the same page which ce later in the transcr |
| 24602/18 | you | the way you |
| 24602/19 | also | also, |
| 24607/19 | microstructure of | microstructure, of |
| 24609/1 | has | was |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24609/16 | elevations from | elevations, from |
| 24611/14 | A | (WITNESS WACHOB) |
| 24611/23 | A | (WITNESS RAU) |
| 24612/4 | a | "a" |
| 24612/5 | $\frac{d}{}$ e or a | $\begin{aligned} & \text { "d" or "a" } \\ & \text { "e" } \end{aligned}$ |
| 24612/6 | a | "a" |
| 24612/7 | e | "e" |
| 24612/9 | a through d | "a" through "d" |
| 24612/18 | top | top, |
| 24629/5 | $\begin{aligned} & \text { mill } \\ & \text { mills } \end{aligned}$ | $\begin{aligned} & \text { mil } \\ & \text { mils } \end{aligned}$ |
| 24629/13 | testing it | testing, it |
| 24629/15 | mills | mils |
| 24635/14 | $\mathrm{R}-\mathrm{r}$ | R-4 |
| 24640/10 | position are | position 13 are |
| 24640/17 | properties for <br> chemical iron | chemical properties for cast iron |
| 24640/19 | if | is |
| 24640/22 | represented above | representation of |
| 24643/8 | reported, | $\begin{aligned} & \text { reported tensile } \\ & \text { strength } \end{aligned}$ |
| 24644/22 | -done | known |
| 24647/5 | the fitness | , the thickness |
| 24649/16 | or | you're |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24649/21 | certiain | certain |
| 24650/11 | increases it's | increases. It's |
| 24659/20 | a low | at no |
| 24665/12 | firm | firms |
| 24665/18 | we were | were we |
| 24667/4 | is not | is |
| 24667/19 | than | in |
| 24669/9 | phase | side |
| 24676/23 | in | an |
| 24680/20 | WITNESS | Mr. |
| 24680/23 | but | that |
| 24688/2 | FaAA not | FaAA, not |
| 24689/1 | cracks | cracks, |
| 24689/2 | microstructure | microstructure, |
| 24689/13 | and any | and to any |
| 24691/3 | and | on |
| 24691/17 | both | both low |
| 24692/15 | been to | to |
| 24693/9 | Now | How |
| 24593/19 | crack it increases. The | crack <br> increases, the |
| 24693/23 | raise | raised |
| 24693/24 | raise | raised |
| 24694/2 | increases. This | increases, this |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24694/3 | multiples | multiplicative |
| 24694/9 | 14 | 13 |
| 24694/16, 24 | Loop | LOOP / |
| 24695/11 | loop loca | LOOP / LOCA |
| 24695/13 | loop loca | LOOP / LOCA |
| 24695/13 | loop LOCA | LOOP/LOCA |
| 24695/15 | stop | stud |
| 24695/18 | Exhibit B-5l engine, blocks 101 and 103 | Exhitit B-51, engine blocks 101, 102, and replacement 103 |
| 24697/11 | again? A | again? |
| 24698/14 | are not | are incorporated, not |
| 24700/24 | stresses | stresses to |
| 24702/12 | the one | the stress |
| 24702/13 | that position | that stud position |
| 24703/7 | ruling | ruler |
| 24707/20 | conservative of a toll to be used | conservative to be used |

> UNITED STATES OF AMERICA
> NUCLEAR REGULATORY COMMISSION
> BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of: | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT
OF HEARING IN ABOVE ENTITLED MATTER

## Wednesday, October 24, 1984

| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $24718 / 23$ | concernng | concerning |
| $24722 / 25$ | stress | address |
| $24726 / 3$ | out and do | out conservatism and do |
| $24727 / 16$ | top that $3-1 / 2$ | top $3-1 / 2$ |
| $24728 / 9$ | The cast | The block top |
| $24731 / 11$ | Wacob | Wachob |
| $24733 / 6$ | mechanical test | Wltimate tensile |
| $24738 / 17$ | Widmanstaetten in | Widmanstaetten graphite and |
| $24741 / 13$ | coolant | cooling |
| $24741 / 16$ | again | extensive |
| $24746 / 14$ |  | again. |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24747/2 | question, that | question yes, the |
| 24747/3 | clearly | clearly the microstructure |
| 24747/5 | structure | microstructure |
| 24748/5 | excessive | extensive |
| 24749/14 | light | slight |
| 24750/13 | lenticular | venticular |
| 24751/24 | projection | profile |
| 24752/12 | graphite because this | graphite, because it |
| 24753/19 | photomicrograms | photomicrographs |
| 24756/2 | macroscopic | microscopic |
| 24760/8 | he | have |
| 24764/9 | metallographic | metallography |
| 24764/13 | ```I don't mean examine it.``` | You don't mean examine the crack. |
| 24764/15 | of -- | of it -- |
| 24765/18 | anticiated | anticipated |
| 24765/22 | 5500 | 55,000 |
| 24765/23 | 5100 | 51,000 |
| 24765/25 | on average | on the average if |
| 24766/5 | 4300 | 43,000 |
| 24766/13 | 5400 | 54,000 |
| 24767/2 | rates | relates |
| 24768/12 | B-44 | B-44 for |


| Page/Line | Reads |
| :--- | :--- |
| $24769 / 13$ | which |
| $24770 / 14$ | 24 |
| $24770 / 21$ | once |
| $24771 / 15$ | degrated |
| $24772 / 9$ | adhere |
| $24773 / 2$ | but |
| $24777 / 9$ | on |
| $24777 / 20$ | expectl |
| $24778 / 7$ | to a |
| $24779 / 25$ | basel ine |
| $24783 / 20$ | adn |
| $24784 / 11$ | baseline |
| $24784 / 14$ | March an April 84 |
| $24785 / 1$ | before that |
| $24785 / 1$ | after, |
| $24785 / 16$ | loop LOCA |
| $24786 / 4$ | loop LOCA |
| $24787 / 20$ | loop LOCA |
| $24788 / 19$ | loop LOCA LOCA That |
| $24790 / 4$ |  |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24793/8 | mechanic | mechanics |
| 24794/4 | progression | progressing |
| 24795/22 | facture | fracture |
| 24795/25 | Low | Lau |
| 24796/18 | Howerr | However |
| 22798/3 | 110 | 101 |
| 24798/13 | attention | intention |
| 24800/2 | friction | fracture |
| 24802/19 | are very | are very, |
| 24805/24 | looked | looked at |
| 24806/16 | 3 to 4 | 4 to 5 |
| 24806/20 | 4 or 5. All | 4 or 5, all |
| 24812/1 | occurred, | occlured; |
| 24812/3 | . 4 inch | 4.4 inch, |
| 24812/4 | 100p | LOOP / |
| 24812/24 | most -- was | was most |
| 24818/4 | that | that, |
| 24818/5 | developed | developed, |
| 24818/25 | Pomigrin's | Palmigrin's |
| 24820/19 | can' | can't |
| 24821/16 | origianal | original |
| 24822/21 | loop LOCA | LOOP/LOCA |
| 24823/10 | 100p | LOOP |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24823/11 | Loop LOCA | LOOP/LOCA |
| 24823/19 | loop | LOOP |
| 24825/5 | 35 | 3500 |
| 24828/9 | degrees, in | degrees. In |
| 24830/13 | wih | with |
| 24835/14 | inspections were out | inspection results were out was |
| 24846/22 | that the | what the |
| 24847/17 | 3/8ths, $1 / 2$ inch | $3 / 8$ ths to $1 / 2$ inch |
| 24848/12 | compilations | calculations |
| 24852/21 | stream | strain |
| 24853/19 | reaches | meets |
| 24854/25 | pages | gages |
| 24859/20 | paraphernalia | paraphenalia |
| 24859/21 | an | in the |
| 24860/2 | ground | a ground |
| 24860/4 | have | have (Witness referring to samples being held by Witness Wachob) |
| 24860/17 | have <br> painted | had <br> paint on |
| 24861/4 | of casting stone | as castings |
| 24862/4 | furthe | further |
| 24864/3 | disc | dis- |
| 24865/6 | Mil | Mel |


| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $24866 / 12$ | $9 / 10$ or $9 / 10$ | $8 / 10$ or $9 / 10$ |
| $24870 / 21$ | mechanic | mechanics |
| $24884 / 1$ | low | load |
| $24890 / 18$ | reveal | review |
| $24891 / 13$ | of | on |
| $24893 / 12$ | number | amount |

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of : | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

## PROPOSED ERRATA TO TRANSCRIPT <br> OF HEARING IN ABOVE ENTITLED MATTER

Monday, October 29, 1984

| Paqe/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $24918 / 4$ | if | on |
| $24922 / 22$ | stress | strength |
| $24922 / 23$ | predicted and | predicted, and |
| $24922 / 23$ | crackinitiation | crack, initiation |
| $24922 / 24$ | the | of |
| $24925 / 24$ | with me ti.e | with the |
| $24925 / 25$ | directly but | directly, but |
| $24926 / 13$ | (labt to the sixth cycles) "(10 to the sixth cycles)" |  |
| $24927 / 14$ | specifice hours) | specific |
| $24927 / 17$ | ladder | spout 100 hours" |
| $24928 / 18$ |  | liner |


| Paqe/Line | Reads | Shculd Read |
| :---: | :---: | :---: |
| 24930/21 | accurately | accurate |
| 24932/13 | Mil | Mel |
| 24934/1 | Mil | Mel |
| 24934/13 | on internally that | that internally |
| 24934/21 | matereial | material |
| 24943/12 | nevertheless and | revertheless, and |
| 24946/17 | that size | the size |
| 24950/16 | agreement | 103 were in agreement |
| 24950/20 | of areas | of other areas |
| 24951/3 | basis, | bases |
| 24951/4 | of | of f |
| 24959/18 | funnels | follows |
| 24961/8 | that we | that he |
| 24962/25 | in | an |
| 24963/20 | Yes | Yet |
| 24964/7 | of the | to the |
| 24968/15 | consistent. With | consistent with |
| 24968/16 | oxide obviously | oxide. Obviously |
| 24969/9 | was looked at | was used to look |
| 24971/6 | surface | service |
| 24972/14 | mollecular | molecular |
| 24972/20 | mollecular | molecular |
| 24973/9 | mollecular | molecular |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 24973/13 | mollecular | molecular |
| 24974/14 | it gets | it (oxygen) gets |
| 24974/15 | it grows | it (the oxide) grows |
| 24978/6 | EDAX, Electron | EDX, |
| 24978/7 | Dispersive Energy | Energy Dispersive |
| 24979/12 | throughout the interface. There may well be | There may wellbe |
| 24979/14 | repairedl | repaired |
| 24981/6 | magnesium sulfite | manganese sulfide |
| 24982/19 | have any | have been any |
| 24983/23, 24 | -- calcium sulfide present in the diesel oil. | Delete |
| 24986/3 | halite | halide |
| 24987/9 | thickness if | thickness. If |
| 24989/17 | EDAX | EDX |
| 24991/9 | it but | it, but |
| 24991/22 | this cooldown | the cooldown |
| 24994/6 | block it | block casting it |
| 24997/15 | oxidation to | oxidation of |
| 24997/16 | basically | exist |
| 24998/17 | positioning of | position where |
| 25000/4 | which would have | which has |
| 25000/13 | there for | therefore |


| Paqe/Line | Reads |
| :--- | :--- |
| $25001 / 17$ | Dr. Schuster |
| $25017 / 20$ | St. Cloud bar |
| $25018 / 3$ | probleml? |
| $25021 / 12$ | it they |
| $25021 / 25$ | Younling? |
| $25026 / 7$ | 103 |
| $25026 / 10$ | increase |
| $25031 / 4$ | glass |
| $25047 / 12$ | attached the |
| $25049 / 14$ | what is motion |
| $25054 / 9$ | arise a higher |
| $25059 / 24$ | grade |
| $25064 / 18$ | ceramic that although |
| $25065 / 9$ | to be -- |
| $25065 / 25$ | uniform |
| $25066 / 12$ | it is |
| $25066 / 13$ | equal to the |

## Should Read

Mr. Schuster
St. Cloud block
problem?
it, they
Youngling?
101
inquiry
class
attached to the what this motion arise at a higher rate
ceramic; although
to be equal --
ultimate
as "is
equal to" the

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of: | $X$ |
| :--- | ---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT
OF HEARING IN ABOVE ENTITLED MATTER

## Tuesday, October 30, 1984

| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $25077 / 2$ | believe hat that | believe that |
| $25078 / 19$ | loop LOCA | LOOP/LOCA |
| $25084 / 23$ | crank shafts | crankshafts |
| $25087 / 1$ | or not | whether or not |
| $25087 / 1$ | an oxide as | mechanic's |
| $25088 / 19$ | analysis oxide, as |  |
| $25089 / 15$ | extensions | mechanics |
| $25089 / 22$ | corner we | analyses |
| $25091 / 3$ | loxtension |  |
| $25092 / 2$ | radius between | block, we |
| $25092 / 3$ | corner, |  |
| $25092 / 3$ | cork | radius, between |


| Page/Line | Reads |
| :--- | :--- |
| $25093 / 6$ | over ranged conditions |
| $25093 / 7$ | liner |
| $25097 / 6$ | as sawed, |
| $25100 / 6$ | horizontal in |
| $25104 / 12$ | at B-9 |
| $25105 / 6$ | transfers are |
| $25105 / 8$ | region. |
| $25108 / 8$ | region |
| $25108 / 9$ | arked |
| $25108 / 22$ | arked |
| $25110 / 3$ | other |
| $25110 / 4$ | about that |
| $25110 / 18$ | and menss the |
| $25112 / 1$ | sper |
| $25112 / 10$ | stresses |
| $25113 / 4-9-18$ | martinesite |
| $25114 / 11$ | martinesite |
| $25118 / 5$ | audience |
| $25118 / 8$ | records we |

## Should Read

over a range of conditions
liner,
as-sawed,
horizontal, from
of $\mathrm{B}-9$
transfers, which are
region; occurred.
region-
arced
arced
he meant the other,
about oxide on that
direct
to the weld metal,
stresses,
martensite
martensite
audits
records, we
specification of that
and the:
rusting of
after that

| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25124/11 | through the | through, the |
| 25124/15 | regular to making | regularly making |
| 25124/21 | the Dr. McCarthy | to Dr. McCarthy |
| 25129/4 | elevent | eleven |
| 25129/22 | ASTM-A-40-A | ASTM-A-48 |
| 25:30/14 | Transamerican | Transamerica |
| 25130/15 | Itt | It |
| 24131/10 | Materials' | Materials, |
| 25131/13 | Purchase and | Purchase; and |
| 25132/5 | fact a $45-\mathrm{B}$ and a 40-B, | fact class A 45-B and A $40-\mathrm{B}$, |
| 25132/8 | 50 by | 5?-B by |
| 25133/1 | diameter bar, | diameter B-bar, |
| 25133/6 | too, for | too were cast for |
| 25133/6 | reasons but | reasons. But |
| 25133/6 | case it | case, it |
| 25136/3 | resultant packages, | resultant percentage changes |
| 25139/3 | compared | comparable |
| 25147/15 | tears, verocity, | tears, porosity, |
| 25148/8 | from verocity or, | from porosity or, |
| 25149/1 | to is | to do is, |
| 25150/21 | it that weld repair would | it, that weld repair would |
| 25151/20 | passes | phases |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25151/22 | your flex, | your flux, |
| 25152/14 | the Martin site, | the Martensite, |
| 25152/15 | prepare procedures | preparation procedures |
| 25154/4 | size for | size governing |
| 25154/5 | where that | whether that |
| 25154/8 | is affective in | is effective in |
| 25156/6 | the fuller the way | the further away |
| 25156/17 | hugh | huge |
| 25156/20 | I probably did, | I thought I did, |
| 25159/24 | by reducing some | by machining some |
| 25161/11 | 1- to 3000 ths of | 1 to 3 one thousandths of |
| 25164/3 | the diameters, | the parameters, |
| 25164/14 | would | could |
| 25175/24 | loop LOCA | LOOP / LOCA |
| 25175/25 | loop LOCA | LOOP/LOCA |
| 25179/25 | insistance | insistence |
| 25191/24 | sent | sat |
| 25210/1 | no shown | not shown |
| 25211/1 | area and | area, and |
| 25211/1 | intersept | intersect |
| 25218/12 | mills | mils |
| 25223/4 | foundary | foundry |
| 25224/4 | uponthat | upon that |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25225/16 | there, that anything | there, than anything |
| 25229/13 | this facility, my | this locality, in my |
| 25229/21 | anywhere that | anywhere near that |
| 25229/25 | 5 mills, | 5 mils , |
| 25230/14 | that is | that it is |
| 25231/3 | compressive strength stress. | compressive stress. |
| 25233/19 | postuled <br> loop LOCA | postulated LOOP/LOCA |
| 25233/21 | cracking beyond | substantial cracking beyond |
| 25233/23 | loop LOCA | LOOR / LOCA |
| 25237/23 | loop LOCA | LOOP/LOCA |
| 25238/14 | additional of the conservatism | additional conservatism |
| 25240/2 | perlitic | pearlitic |
| 25240/3 | perlitic | pearlitic |
| 25241/5 | procedures. | process. |
| 25241/5 | absence of any thick | presence of thick |
| 25245/8 | we would have | we could have |
| 25247/13 | vitually | virtually |
| 25257/19 | mills | mils |
| 25257/22 | edition | leaking |

```
UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY \& LICENSING BOARD
```

| In the Matter of: | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

PROPOSED ERRATA TO TRANSCRIPT

## OF HEARING IN ABOVE ENTITLED MATTER

## Wednesday, October 31, 1984

Paqe/Line
25271/9
25273/4
25275/1
25276/18
25277/2
25277/9
25279/4
25279/16 indiction
25281/1 not repair
25281/4 they had
25281/5 it had
25281/8 Turing

Should Read
EDGs
makeup,
mil
kinds
mil
mil
mil
indications
beneath the repair
the oxides had
the cracks had
Turning

| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25282/8 | as in fact it is | that in fact it |
| 25284/14 | crack depth gages. | TSI crack depth gage. |
| 25285/6 | occur | occurs |
| 25287/21 | This | The |
| 25292/2 | graphite formed | gray cast iron formed |
| 25297/16 | along | alone |
| 25301/10 | inmy | in my |
| 25303/5 | in in | it in |
| 25308/2 | with | without |
| 25308/3 | out him, | him, |
| 25308/14 | $\begin{aligned} & \text { is it not } \\ & \text { highly likely } \end{aligned}$ | is it is highly unlikely |
| 25309/16 | think | thank |
| 25312/9 | and file | and final |
| 25313/3 | loop LOCA | LOOP/LOCA |
| 25313/5 | loop LOCA | LOOP / LOCA |
| 25313/25 | loop LOCAs | LOOP/LOCAS |
| 25314/5 | loop Locas | LOOP/LOCAS |
| 25314/10 | loop LOCA | LOOP/LOCA |
| 25314/13 | file crack | final crack |
| 25315/14 | loop | LOOP/ |
| 25315/21 | loop | LOOP / |
| 25316/5 | inch | inches |
| 253i7/1 | what | that |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25317/4 | loop | LOOP/ |
| 25317/9-10 | block were out of | block results in |
| 35317/21 | addition time | additional time |
| 25317/25 | loop LOCA | LOOP/LOCA |
| 25318/20 | conservatism, | conservatism. |
| 25318/21 | for | For |
| 25320/3 | loop LOCA | LOOP/LOCA |
| 25322/17 | strain as the strain | strain at strain |
| 25325/8 | only are | only, are |
| 25325/10 | at that | in that |
| 25325/16 | loop LOCA | LOOP/LOCA |
| 25332/21 | fact of | factor of |
| 25332/22 | loop | LOOP/ |
| 25333/20 | ways that are evidence for | ways to estimate |
| 25334/6 | only 1.75; an hour | only 1.75 hours; an hour |
| 25335/17 | may overestimate the | may have overestimated the |
| 35337/4 | the study holes | the stud holes |
| 25341/2 | finite model | finite element model |
| 25341/23 | analyze to determine | analyze and determine |
| 25342/10 | very finite element | very fine element |
| 25342/3 | respect | respects |
| 25343/21 | thermally-inducted | thermally-induced |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25346/1 | remember, | remembers, |
| 25347/14 | line in any | line at any |
| 25348/24 | this more | this is more |
| 25348/25 | thread will | thread, this will |
| 25351/12 | fatigure | fatigue |
| 25353/16 | loop | LOOP / |
| 25354/5 | on line on 17 | on line 17 |
| 25355/9 | Dr. Bush.j | Dr. Bush. |
| 25355/21 | konw | know |
| 25366/13 | such at River Bend | such as River Bend |
| 25370/8 | loop LOCA | LOOP/LOCA |
| 25370/13 | effect ford | effect would |
| 25371/17 | levels of 3935 and | levels of 3900,3500 and |
| 25375/4 | bases | basis |
| 25375/5 | bases | bas is |
| 25376/2 | TDI had repaired | TDI had prepared |
| 25376/20 | No, he did not | No, we did not |
| 25377/14 | Thank you, Farley, that | Thank you, that |
| 25378/16 | Mr. Morris Lowrey | Mr. Maurice Lowrey |
| 25378/17 | Mr. Greg Veshouri | Mr. Greg Beshouri |
| 25382/12 | 3,429 , rounded of $f$ | 3,409 , rounded of $f$ |
| 25386/25 | Text omitted |  |
| 25387/18 | dispursive | dispersive |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25409/6 | can be look at | can be looked at |
| 25410/11 | of couse | of course |
| 25416/8 | perlitic | pearlitic |
| 25416/12 | perlite | pearlite |
| 25418/16 | pore | pour |
| 25419/9 | that's why I do condenses and it | that's why the dew condenses and it |
| 25419/18 | low negligible | low, negligible |
| 25428/14 | fracture breaking | fracture or breaking |
| 25438/19 | semi-circular | semi-circul |
| 25439/4 | the inner section | the intersection |
| 25439/9 | innerface | interface |
| 25440/16 | whole which | hole, which |
| 25448/12 | demonstrated by | demonstrated, by |
| 25446/18 | wall, in the wall | will, in the wall |
| 25448/15 | loop LOCAs | LOOP/LOCAS |
| 25448/18 | loop LOCAs | LOOP/LOCAS |
| 25449/21 | loop LOCAs | LOOP/LOCAS |
| 25449/24 | loop LOCAs | LOOP/LOCAS |
| 25449/25 | loop LOCAs | LOOP/LOCAS |
| 25450/3 | the difficult. | the difficulty. |
| 25450/12 | loop LOCA | LOOP / LOCA |
| 25450/23 | loop LOCA | LOOP/LOCA |
| 25451/1 | loop | LOOP/ |


| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $25451 / 7$ | loop LOCA | LOOP/LOCA |
| $25451 / 12$ | loop LOCA | LOOP/LOCA |
| $25451 / 15$ | loop LOCA | LOOP/LOCA |
| $25451 / 16$ | profile which | profile, which |
| $25452 / 4$ | loop LOCAs | LOOP/LOCAS |
| $25452 / 6$ | loop LOCA | LOOP/LOCA |
| $25452 / 12$ | loop LOCA | LOOP/LOCA |
| $25452 / 14$ | loop LOCA | LOOP/LOCA |
| $25453 / 11$ | loop | LOOP/ |
| $25456 / 15$ | is 1-1/4 at | is 1-1/4 inches at |
| $25476 / 7$ | I've got him on | I've got another |

# UNITED STATES OF AMERICA <br> NUCLEAR REGULATORY COMMISSION <br> BEFORE THE ATOMIC SAFETY \& LICENSING BOARD 

| In the Matter of: | $X$ |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Thursday, November 1, 1984

| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25489/13 | a quanter was cut | a corner was cut |
| 25490/12 | (Witness Johnson) | (Witness Youngling) |
| 25498/13 | ever | every |
| 25499/20 | fine element | finite element |
| 25501/19 | consistenting | consisting |
| 25508/5 | conservative comment | conservative estimate |
| 25508/22 | calculation. The | calculation, the |
| 25509/16 | the testmony | the testimony |
| 25509/18 | crack propagation | crack propagation; |
| 25509/19 | was said that | was said was that |
| 25509/20 | representation which | representation, which |
| 25509/21 | results could | results, could |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 25510/1 | location used | location and that used |
| 25511/12 | water in some of the order | water in the order |
| 25515/8 | Loop LOCA | LOOP/LOCA |
| 25526/5 | four mills | four mils |
| 25526/23 | four mill | four mil |
| 25529/20 | the Stere binocular | the Stereo binocular |
| 25560/25 | Text omitted |  |
| 25561/18 | motion motion expressly | motion expressly |
| 25570/21 | What he referring to about Dr. Rau | What he's referring to about Dr. Rau's testimony |
| 25570/23 | specifically give | specifically gave |
| 25609/22 | motoin | motion |
| 25614/12 | Mr. Britagi | Mr. Brigati |
| 25634/10 | EDG blokes | EDG blocks |
| 25634/25 | Text omitted |  |
| 25657/11 | scrapped | scratched |

# UNITED STATES OF AMERICA <br> NUCLEAR REGULATORY COMMISSION <br> BEFORE THE ATOHIC SAFETY \& LICENSING BOARD 

| In the Matter of : | $X$ |
| :--- | ---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

## PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Friday, November 2, 1984

Paqe/Line
25709/1
25709/2

25713/15

25729/17
25729/25
25730/18
25749/12
25752/1

## Reads

Omitted Text
I will also

He is not characterizing it and not allowing the witness to answer.
has been regained
would do under
of the
weldment
there is no

Should Read

MR. BRIGATI: I will also

He is characterizing it and now allowing the witness to answer.
has been retained
would do this under
on the
weld material
there is in no

# UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION BEFORE THE ATOMIC SAFETY \& LICENSING BOARD 

| In the Matter of: | $X$ |
| :--- | ---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Wednesday, November 7, 1984

| Paqe/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $25789 / 3$ | inference it it's | inference; if it's |
| $25796 / 3$ | reaize | realize |
| $25800 / 14$ | fatigue on fracture | fatigue and fracture |
| $25832 / 16$ | failure analysis | Failure Analysis |
| $25855 / 23$ | degrated | degraded |
| $25864 / 6$ | need to in | need to be in |
| $25885 / 17$ | no abolute | no absolute |
| $25929 / 18$ | cross plant | cross plan |
| $25931 / 1$ | loop LOCA | LOOP/LOCA |
| $25931 / 5$ | loop LOCA | non-descriptive |


| Page/Line | Reads |
| :--- | :--- |
| $25941 / 14$ | Should Read |
| compression | compressive |

```
                                    UNITED STATES OF AMERICA
    NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY & LICENSING BOARD
```

| In the Matter of: | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Thursday, November 8, 1984

| Paqe/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26018 / 12$ | block? | block. |
| $26021 / 19$ | approsiximately | approximately |
| $26030 / 6$ | Dr. Bushj? | Dr. Bush? |
| $26033 / 2$ | statically | statistically |
| $26034 / 14$ | materia | material |
| $26045 / 2$ | Got | Gott |
| $26046 / 3$ | Got | Gott |
| $26 C 16 / 14$ | Got | Gott |
| $26049 / 1$ | Got | Gott |
| $26049 / 2$ | Got | Gott |
| $26068 / 22$ | loop LOCA | is IEE |


| Paqe/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26088 / 18$ | loop | LOOP/ |
| $26092 / 9$ | that I did | that it did |

> UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION BEFORE THE ATOMIC SAFETY \& LICENSING BOARD


> UNITED STATES OF AMERICA
> NUCLEAR REGULATORY COMMISSION
> BEFORE THE ATOMIC SAFETY \& LICENSING BOARD


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26360/6 | inlcude | include |
| 26360/9 | 1 and | landing |
| 26361/20 | shrear | shear |
| 26372/1 | loop LOCA | LOOP/LOCA |
| 26382/7 | all flavors and has them | all flavors |
| 26382/8 | run through all flavors and | and |
| 26393/1 | sustaned | sustained |
| 26397/22 | No | no |
| 26400/4 | occur . | occur. |
| 26410/25 | nickle | nickel |
| 26411/6 | nic'le | nickel |
| 26422/25 | Text omitted |  |
| 26425/12 | accomodate | accommodate |
| 26431/11 | efficiently | efficiency |

# UNITED STATES OF AMERICA <br> NUCLEAR REGULATORY COMMISSION <br> BEFORE THE ATOMIC SAFETY \& LICENSING BOARD 

| In the Matter of: | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) | $\vdots$ |

> Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Wednesday, November 14, 1984

| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26446 / 20$ | 500 X | festimony |
| $26458 / 14$ | ETGs | testify |
| $26459 / 4$ | cracks | EDGs |
| $26446 / 2$ | cxide | cracks, |
| $26466 / 3$ | and the | oxide, |
| $26466 / 4$ | from the | of the |
| $26466 / 6$ | paren thick oxide | and it is the |
| $26466 / 22$ | paren | (thick oxide) |
| $26467 / 11$ | inch | from |
| $26467 / 22$ |  | inch, |


| Page/Li le | Reads | Should Read |
| :---: | :---: | :---: |
| 26468/6 | we've got | we've got a |
| 26468/8 | perlite | pearlite |
| 26468/9 | cetera. It | cetera as it |
| 26468/20 | crack | crack, |
| 26468/22 | or the heat-affected zone parentheses | (or the heat-affected zone) |
| 26470/20 | both of | both in |
| 26471/7 | made | made, |
| 26473/20 | takenthat | taken that |
| 26474/20 | mill | mil |
| 26477/9 | porour | porous |
| 26480/20 | condition | condition, and |
| 26481/14 | photo micrographs | photomicrographs |
| 26482/18 | perlitic | pearlitic |
| 26483/13 | perlite | pearlite |
| 26483/13 | ferrite | (ferrite) |
| 26483/17 | perlite | pearlite |
| 26483/25 | degress | degrees |
| 26484/10 | carburization | decarburization |
| 26484/12 | perlite | pearlite |
| 26485/2 | photo micrographs | photomicrographs |
| 26486/15 | motion | growth |
| 26488/24 | running | run under |
| 26489/11,15 | of absence | or absence |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26491/2 | evidence was | evidence of benchmarks was |
| 26494/21 | perlite | pearlite |
| 26495/2 | it is | it is not |
| 26495/3 | Fe2O3 | $\mathrm{Fe}_{2} \mathrm{O}_{3}$ |
| 26495/4 | high-graded | hydrated |
| 26495/15 | the shrinkage | the casting shrirkage |
| 26495/21 | demarcation | the demarcation |
| 26501/21 | perlite | pearlite |
| 26502/23 | Sims or Auje | SIMS or Auger |
| 26509/5 | Eska and Auje | ESCA and Auger |
| 26511/3 | on reason | one reason |
| 26511/12 | $\mathrm{CO2}$ | $\mathrm{CO}_{2}$ |
| 26516/22 | ferrous | ferric |
| 26517/12 | discussing with | discussing it with |
| 26520/12 | label -- that | label. That |
| 26523/3 | perlite | pearlite |
| 26523/5 | sid | side |
| 26523/8 | perlite | pea lite |
| 26523/10 | is | has |
| 26525/13, 19 | 500 X | 500x |
| 26527/2 | is | with is |
| $\begin{aligned} & 26527 / 2,7, \\ & 10,22 \end{aligned}$ | 500 X | 500x |
| 26531/25 | defraction | diffraction |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26534/13 | FE2O3 | $\mathrm{Fe}_{2} \mathrm{O}_{3}$ |
| $\begin{gathered} 26536 / 5,13 \\ 15 \end{gathered}$ | x-ray | $x$-ray |
| 26536/14 | Crone | McCrone |
| 26537/20 | $x$-ray | x-ray |
| 26538/8 | probitive | probative |
| 26538/19 | X-ray | x-ray |
| 26545/5 | crack | cracks |
| 26565/24 | must. | must be. |
| 26568/10 | high | high load |
| 26568/25 | repititious | repetitious |
| 26570/22 | measures | measured |
| 26578/15 | 350 or 39 | 35 or 3900 KW |
| 26580/24 | WITNESS RAUN | WITNESS RAU |
| 26581/13 | levels in | levels, and |
| 26581/15 | LOLCO | LILCO |
| 26-64/15 | and the | in the |
| 26585/8 | inferring | measuring |
| 26588/1 | through | though |
| 26590/9 | Fe203 | $\mathrm{Fe}_{2} \mathrm{O}_{3}$ |
| 26590/11 | have less | have reddish |
| 26591/16 | million | millionth |
| 26591/16 | 1/10 | 10 |
| 26593/9 | oxide | oxidize |



| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26641/6 | are a deep | are as deep |
| 26642/3 | inner cooler | intercooler |
| 26643/21 | on because | onto because |
| 26643/25 | support | support, |
| 26644/1 | shrinks | shrinks, |
| 26645/18 | were, the | were. The |
| 26646/6 | We cant | We can't |
| 26652/13 | location | locations |
| 26654/1 | a navicular | an accicular |
| 26655/3 | to very extensive amounts | in very extensive amounts, |
| 26655/20 | two type locations | two locations |
| 26655/21 | it in one very | indications and in those |
| 26655/21 | instance | instances |
| 26656/5 | utectic | eutectic |
| 26656/5 | This last | This is the last |
| 26656/7 | intersect | intersect, |
| 26656/12 | that one | in which one |
| 26656/13 | seeing. | seeing Widmanstaetten graphite. |
| 26656/18 | regions | no regions |
| 26657/14 | walls and | walls, and |
| 26657/15 | microstructure | microstructure, |
| 26660/17 | until thie | until the |

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of : | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) |  |

> Docket No. 50-322-OL

## PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

Thursday, November 15, 1984

| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26682 / 16$ | there was | there was a |
| $26684 / 20$ | numbers on |  |
| $26687 / 5$ | right towards from <br> right towards | right towards |
| $26692 / 8$ | Andserson | Anderson |
| $26693 / 22$ | particle | particles |
| $26698 / 17$ | one | on |
| $26699 / 8$ | top in | top and in |
| $26700 / 3$ | Text omitted | at |
| $26700 / 25$ | what omitted | that |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26706/11 | to temperature | to a temperature |
| 26706/21 | proviced | provided |
| 26706/26 | "derived" | Delete |
| 26707/5 | to temperature | to a temperature |
| 26707/11 | over | beyond |
| 26707/13 | thickness | thicknesses |
| 26707/19 | technical | analytical |
| 26708/9 | rust, what | rust. What |
| 26714/18 | at higher | at a higher |
| 26714/2 | 0.5 | . 05 |
| 26715/15 | it's | and it's |
| 26717/23 | if I | if he |
| 26722/2 | Eulig | Ulig |
| 26722/15 | perlite | pearlite |
| 26724/17 | manufacturer | manufacturers |
| 26728/19 | particular electrod | particular electrode |
| 26733/5 | you | your |
| 26735/16 | Witness Anderson) | (Witness Anderson) |
| 26739/21 | photogrpahs | photographs |
| 26744/12 | pariticular | particular |
| 26744/16 | for number | of number |
| 26745/9 | lables | labels |
| 26746/8 | . 1. | . 1 inch. |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26748/6 | original 103 | original 103; |
| 26755/24 | essentially | essential |
| 26758/12 | Craig | Greg |
| 26761/2 | assume | assumes |
| 26769/17 | the formation | the crack formation |
| 26773/25 | other | stronger |
| 26775/10 | JUDGE BRENNER: | WITNESS RAU: |
| 26776/8 | replacement | replacement block |
| 26776/9 | appropritae | appropriate |
| 26777/11 | be in the | be on the |
| 26779/4 | the assigned the | he assigned the |
| 26779/14 | zero. Then | zero, then |
| 26779/15 | level | levels |
| 26779/22 | variant | very |
| 26781/2 | thing | block |
| 26784/24 | defraction | diffraction |
| 26785/1 | defraction | diffraction |
| 26790/11 | bases | bas is |
| 26790/13 | compressive | tensile |
| 26795/5 | that I | whether I |
| 26795/19 | materials' | material's |
| 26795/20 | no | not |
| 26798/4 | clearly | clearly. |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 26799/7 | Hauppaugh | Hauppauge |
| 26809/14 | shining | shiny |
| 26811/14 | 89 | 81 |
| 26818/14 | turn | turned |
| 26825/25 | board | Board |
| 26827/13 | be | been |
| 26832/7 | though | thought |
| 26835/25 | characateristics | characteristics |
| 26837/24 | you? | you?" |
| 26838/14 | fore | before |
| 26838/15 | reference. | reference |
| 26838/23 | testify | testified |
| 26839/10 | mill | mil |
| 26851/16 | perlite | pearlite |
| 26854/15 | FE2O3 | $\mathrm{Fe}_{2} \mathrm{O}_{3}$ |
| 26854/16 | FE304 | $\mathrm{Fe}_{3} \mathrm{O}_{4}$ |
| 26854/17 | FE304 | $\mathrm{Fe}_{3} \mathrm{O}_{4}$ |
| 26854/21 | FE2O3 | $\mathrm{Fe}_{2} \mathrm{O}_{3}$ |
| 26856/22 | magnatite | magnetite |
| $\begin{gathered} 26857 / 7,9, \\ 10,12 \end{gathered}$ | magnatite | magnetite |
| 26858/24, 25 | question. The | question than the |
| $\begin{array}{r} 26859 / 2,5 \\ 8,9,16 \end{array}$ | magnatite | magnetite |


| Page/Line | Reads | Should Read |
| :---: | :---: | :---: |
| $\begin{aligned} & 26860 / 9,11, \\ & 15,17,20, \\ & 24 \end{aligned}$ | magnatite | magnetite |
| 26860/18 | dehydrated | hydrated |
| $\begin{gathered} 26861 / 11,13, \\ 15,20,21, \\ 24,25 \end{gathered}$ | magnatite | magnetite |
| $\underset{17}{26862 / 3,12}$ | magnatite | magnetite |
| 26863/1, 3 | magnatite | magnetite |
| 26863/2 | focuing | focusing |
| 26864/21 | happen | happy |
| 26867/14 | no | none |
| 26871/3 | thousandths | thousandth |
| 26882/1 | collate | cooling rate |
| 26883/9 | a | any |
| 26885/12 | photograph | photograph, |
| 26891/4 | loop LOCA | LOOP/LOCA |
| 26892/12 | mentioned | mention |
| 26893/8 | a piece | apiece |
| 26904/10 | so | some |

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION
BEFORE THE ATOMIC SAFETY \& LICENSING BOARD

| In the Matter of: | X |
| :--- | :---: |
| LONG ISLAND LIGHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) |  |

Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT
OF HFARING IN ABOVE ENTITLED MATTER
Friday, November 16, 1984

| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26923 / 25$ | Text omitted |  |
| $26924 / 17$ | loop | LOOP/ |
| $26925.1 / 18$ | /LOCA | LOCA |
| $26925.1 / 20$ | loop LOCA | LOOP/LOCA |
| $26929 / 18$ | menas | means |
| $26941 / 4$ | of | on |
| $26945 / 25$ | schedue | schedule |
| $26948 / 14$ | refiecting | reflecting |
| $26949 / 19$ | focussed | focused |
| $26952 / 15$ | focussed | focused |
| $26953 / 5$ | bases | basis |
| $26953 / 13$ | accomodations | accommodations |


| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26954 / 4$ | bases | basis |
| $26957 / 14$ | Court. . | Court.) |
| $26966 / 13$ | The point point I | The point I |
| $26976 / 18$ | receit | receipt |

# UNITED STATES OF AMERICA <br> NUCLEAR REGULATORY COMMISSION <br> BEFORE THE ATOMIC SAFE'TY \& LICENSING BOARD 

| In the Matter of: | X |
| :--- | :---: |
| LONG ISLAND L:GHTING COMPANY | $\vdots$ |
| (Shoreham Nuclear Power Station, | $\vdots$ |
| Unit 1) |  |

Docket No. 50-322-OL

PROPOSED ERRATA TO TRANSCRIPT OF HEARING IN ABOVE ENTITLED MATTER

## Tuesday, November 20, 1984

| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $26986 / 5$ | us | up |
| $26986 / 13$ | is | it |
| $26995 / 4$ | sy | say |
| $26996 / 2$ | is | of |
| $27004 / 25$ | because there | because if there |
| $27016 / 24$ | applied | applied. |
| $27033 / 21$ | critera | criteria |
| $27035 / 2$ | miht | might |
| $27036 / 11$ | North Anne | North Anna |
| $27037 / 25$ | there is | Staff |
| $27038 / 1$ | appeal board's | there is a |
| $27038 / 15$ | Appeal Board's |  |


| Paqe/Line | Reads | Should Read |
| :---: | :---: | :---: |
| 27038/19 | staff | Staff |
| 27039/7 | report | reports |
| 27039/13 | county | County |
| 27039/20 | appeal | Appeal |
| 27039/21 | board | Board |
| 27039/23 | county (twice) | County (twice) |
| 27040/5 | county (once) | County (once) |
| 27040/7 | county (once) | County (once) |
| 27040/10 | licensing board, the appeal board told the licensing board | Licensing Board, the the Appeal Board told the Licensing Board |
| 27040/12 | developes | develops |
| 27040/12 | county | County |
| 27040/14 | licensing board | Licensing Board |
| 27040/17 | county | County |
| 27040/18 | board | Board |
| 27040/24 | appeal board | Appeal Board |
| 27040/25 | board | Board |
| 27041/1 | appeal board | Appeal Board |
| 27041/1 | board | Board |
| 27041/3 | board | Board |
| 27041/17 | Mr. Dau | Mr. Dawe |
| 27041/25 | Mr. Dau | Mr. Dawe |
| 27042/1 | county | County |


| Page/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $27042 / 5$ | board | Board |
| $27042 / 6$ | county | County |
| $27042 / 10$ | board | Board |
| $27042 / 10$ | appeal board | Appeal Board |
| $27042 / 11$ | board | Board |
| $27042 / 11$ | county | County |
| $27042 / 17$ | board | Board |
| $27042 / 24$ | giving | give |
| $27043 / 2$ | permitting license | permitting a icense |
| $27043 / 5$ | board | Board |
| $27043 / 8$ | licensing board | Board |
| $27043 / 12$ | county | secific |


| Paqe/Line | Reads | Should Read |
| :--- | :--- | :--- |
| $27058 / 11$ | bases | basis |
| $27059 / 8$ | bases | basis |
| $27066 / 21$ | crystalized | crystallized |
| $27071 / 24$ | bases | basis |
| $27073 / 5$ | but certainly | But we certainly |
| $27074 / 14$ | pendancy | basis |
| $27075 / 17$ | bases | pendency |

